EDUCATION & TRAINING HANDBOOK

OF

THE CHARTERED INSTITUTE OF LOGISTICS AND TRANSPORT IN HONG KONG

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1. BACKGROUND

The Chartered Institute of Logistics and Transport in Hong Kong (CILTHK) is the professional body for those who engaged in transport and logistics – including all sectors of the industry, namely air, sea and land, for both passengers and freight transport. It has a long history tracing back to 1919 when the Institute of Transport was established in the United Kingdom. Its Royal Charter status was granted in 1926. The Chartered Institute of Transport (CIT) first set up the Hong Kong Branch in 1968. On 1 October 1991, the Hong Kong Section was upgraded to Territorial Organisation (formerly called National Council) status and renamed the Chartered Institute of Transport in Hong Kong (CITHK). This change gave CITHK the authority to handle institute matters independently whilst sharing common agreed standards. In recognition of the fact that the fields of transport and logistics are complementary and highly interdependent and have a big overlap of activities and competence, the Institute has been renamed CILTHK in late 2001. Its vision is to be recognised as the leading worldwide source and assurance of excellence of transport and logistics professionals. As of todate, its membership stands around 1,800 and they work in a wide range of transport and logistics industries including shipping, logistics, airline, railway, road, public transport, government and consultancy.

2. THE EDUCATION & TRAINING COMMITTEE

2.1 Composition and Appointments

2.1.1 The Education & Training Committee (E&T), consisting of a chairperson and committee members are to be either Chartered Fellows (FCILTs) or Chartered Members (CMILTs).

2.1.2 The E&T is consisted of the following members:

Chairperson : Vice President / Nominee who must be a Council

Member appointed by the Council

Vice Chairperson

(if any)

: CMILT or above of CILTHK and to be appointed by

the Chairperson

Committee Members : CMILT or above of CILTHK

Co-opted members : Invited at the discretion of the Education and Training

Committee

2.1.3 Terms of Office

- Members are appointed for 2 years each time and may be re-appointed.
- At least half of the members are invited to stay for the next term of office to provide continuity.

2.1.4 E&T Meetings

- The Committee shall meet bi-monthly.
- Quorum shall not be less than 6 members
- Members are expected to attend at least 50% of committee meetings.

2.2 Terms of Reference

- 2.2.1 The E&T is under supervision of one of the designated Vice President of the CILTHK, and shall implement CILTHK policies on education and training quality and regulations; and to examine and administer the individual-based accreditation and continual professional education for members
- 2.2.2 The E&T is charged with the duties as specified in this Handbook.
 - To promote good practices for improving academic and professional quality in transport and logistics.
 - To present to the Council appropriate policy issues and proposed solutions relating to education and training.
 - To establish and review CILTHK education syllabuses/regulations and propose changes to the Council.
 - To report to the Council on issues related to training course provision and quality.
 - To arrange the CILTHK professional qualifying examinations and to approve examination results.
 - To review enrolment statistics, examination result statistics and other performance indicators and to upkeep examination quality.
 - To recommend to the Council the appointment of the Board of Examiners.
 - To inform members about procedures for accrediting educational programmes for membership application.
 - To establish a procedure for accreditation which is accessible to all members and ensure common educational standards.
 - To provide guidelines of Continuing Professional Development for members to upgrade themselves with the latest developments in transport and logistics.
 - To vet and approve applications of all structured CPD activities.
 - To establish sub-committees or working parties as and when appropriate, and to handle their business.
 - To organise educational activities to promote the standing of CILTHK

3. CILTHK PROFESSIONAL QUALIFYING EXAMINATION (PQE)

3.1 Introduction

This section provides detailed information about the arrangements of the local CILTHK Professional Qualifying Examinations (PQE) as from November 2004 onwards. It describes arrangements about the appointments of relevant parties, their terms of reference and duties, the examination administration and appeal procedure, and security issues.

3.2 Appointments and Terms of Reference of Responsible Parties

The CILTHK Professional Qualifying Examination involves six (6) major parties. They are the Education & Training (E&T) Committee, the Examination Sub-committee, the Board of Examiners (BOE), Paper Setters, Invigilators and Markers. The appointments and terms of reference of these parties are described in below paragraphs.

3.2.1 The Education & Training (E&T) Committee

- 3.2.1.1 The E&T Committee is the main body to oversee the education and training activities for the Institute, including the CILTHK Professional Qualifying Examination;
- 3.2.1.2 Under the E&T Committee, there are various Sub-committees which include the Professional Qualifying Examination Sub-committee, the Student Activities Sub-committee, the Scholarship Sub-committee and the Continuing Professional Development Sub-committee.
- 3.2.1.3 The terms of reference of the E&T Committee in relation to Examination are:
 - a) confirming and revising, if necessary, the syllabuses of the examination subjects, taking into considerations of the changing needs of the industry;
 - b) ensuring that the whole process of the qualifying examination is carried out smoothly according to the time schedule and the approved rules for the examination;
 - c) ensuring that the quality and standards of the examination are comparable or equivalent to those stipulated as of the CILT International standard.
- 3.2.1.4 The E&T Committee in relation to Examinations is responsible for:
 - a) proposing to the Council the appointments of BOE members;
 - b) confirming the work timetable for the PQE Sub-committee;
 - c) appointing the Paper Setters, members of the BOE, Invigilators, and Markers;
 - d) announcing the Institute's examination to all MILT/Affiliate/Student Members and interested parties, including the date of registration for the examinations;
 - e) ensuring that the PQE Sub-committee is formed;

- f) ensuring that the PQE Sub-committee can complete its work within the time schedule;
- g) assisting the PQE Sub-committee in recruiting more help to clear up all backlogs, if any, so as to meet the deadline of the work schedule prescribed in section 3.4;
- h) receiving and approving the review reports on the examination and the consolidated examination results submitted by the PQE Sub-committee;

i) approving the examinee that receive the highest marks of 71 or above (+P grade) as nominee of the Best Paper Awards recipient;

PASS GRADES	
+P (Pass with Distinction)	71 marks or above
AP (Well Above Pass level)	66-70 marks
BP (Above Pass level)	60-65 marks
CP (Pass level)	50-59 marks
FAIL GRADES	
DO (Fail)	40-49 marks
EO (Poor)	30-39 marks
FO (Very Poor)	0-29 marks

- j) announcing the examination performance in the public media, CILTHK website and CILTHK Newsletter;
- k) assisting an Appeal Panel comprising three members of the BOE to look into and decide on the outcomes of appeals against the examination results;
- l) submitting a summary report to the CILTHK Council on the implementation of the Professional Qualifying Examinations and the examination results, including the recipients of the Best Paper Awards.

3.2.2 The Professional Qualifying Examination Sub-committee

3.2.2.1 The PQE Sub-committee (hereafter, the PQE Sub-committee) is consisted of not less than three members to handle the administration and preparation work of the Professional Qualifying Examinations.

3.2.2.2 The terms of reference of the PQE Sub-committee are:

- a) ensuring that the entire process of the administration and the preparation work of the Professional Qualifying Examinations is run according to schedule;
- b) ensuring that the Professional Qualifying Examination papers are set within the scope of the approved syllabuses;
- c) ensuring that a high level of security is maintained for the Professional Qualifying Examinations.

3.2.2.3 The PQE Sub-committee is responsible for:

- a) liaising with and receiving from the Paper Setters the proposed examination papers together with suggested answers and marking schemes;
- b) arranging the proposed examination papers to be moderated by the member(s) of the BOE who will also decide which questions will be selected to form the official examination papers;
- c) arranging the finalised examination papers to be typed in a format for the official Professional Qualifying Examination of the CILTHK;

- d) ensuring the typed examination papers are proof-read with care by one of the authorised members of the PQE Sub-committee;
- e) arranging with contracted printers to print appropriate quantity of examination registration forms, examination answer books, supplementary answer sheets, examination result sheets, consolidate examination sheets, etc.;
- f) sending by email or post to MILT/Affiliate/Student members and prospective candidates the official examination registration forms upon request;
- g) accepting all applications for registration to the examination from MILT/Affiliate/Student Members of the CILTHK and other interested candidates;
- h) depositing all examination entrance fees (in cheques) to the account of the CILTHK;
- i) making detailed records about the candidates' selected examination subjects;
- j) issuing to each candidate a PQE Entry Admission Form with unique identification number which may be the HKID card number;
- k) tallying the total number of candidates for each examination subject;
- l) printing the examination papers under tight security;
- m) keeping the proposed and printed examination papers, including the suggested answers in a locked cabinet for the sake of tight security;
- n) arranging or hiring appropriate venues as examination halls;
- o) making necessary seating arrangements for every session of the examination at different examination venues;
- p) briefing all invigilators about their duties at the examination halls;
- despatching the examination papers, answer books, supplementary answer sheets, tag strings, etc., to the examination hall supervisor or the Chief Invigilator of every examination venue before the examination starts;
- r) collecting the examination papers, answer scripts, and unused stationery from the examination hall supervisor or the Chief Invigilator of every examination venue after the examination has finished;
- s) delivered to each Marker the examination paper, answered scripts, suggested answers, a marking scheme and a blank examination result sheet for marking purposes;
- t) collecting from each Marker the examination papers, answered scripts, suggested answers, the marking scheme, and a duly filled examination result sheet for further action;
- u) receiving from each Marker a summarised report on the quality and performance of the answered scripts that he/she had marked;
- v) auditing the answer scripts of each subject for the three best answer scripts, three borderline-case scripts and three lowest score answer scripts for the BOE to evaluate the marking standards and consistency of the Markers;
- w) compiling all examination result sheets into consolidated examination result sheets, which will be submitted to the E&T Committee for report and record purposes;
- x) notifying each candidate of their examination results after the consolidated examination results have been confirmed by the E&T Committee;
- y) preparing to accept appeals from candidates;
- z) handling the administration of the appeal process;
- aa) nominates the Best Paper Awards recipients to the Council through the E&T Committee.

3.2.3 The Board of Examiners (BOE)

- 3.2.3.1 The Chairperson of the E&T Committee will propose to the CILTHK Council a list of professionals and academic professors/lecturers to be appointed as members of BOE. The BOE usually comprises five members. The serving term of the members is two to three years, subject to the approval of the Council.
- 3.2.3.2 The Chairperson of the PQE Sub-Committee will work closely with the BOE in all aspects of the examination in relation to the responsibility of the BOE.
- 3.2.3.3 The terms of reference of the BOE are:
 - a) ensuring that all examinations are conducted in a fair and consistent manner;
 - b) ensuring that the standard of the professional qualifying examinations is comparable with the international standard.
- 3.2.3.4 Specifically, the BOE is responsible for:
 - a) moderating the proposed question papers and suggested model answers;
 - b) ensuring that the question papers and suggested answers are correct in every respect;
 - c) ensuring that no unnecessary overlap exists among questions or papers within a level or between different levels of the examination;
 - d) checking that the questions are set to cover different areas of the subject syllabus rather than confining narrowly to a few subject areas;
 - e) ensuring that the length of the answer for each question is possible for an average candidate to complete within the allotted time;
 - f) ascertaining that the marking scheme is designed fairly;
 - g) ensuring that no ambiguity exists in the wordings of the questions;
 - h) checking that no close-ended questions are set in the papers;
 - i) checking that no question(s) from the previous examination has (have) been repeating in the same paper for the current examination;
 - j) ascertaining a consistent standard and format to be maintained for all subjects in the examinations.
- 3.2.3.5 The BOE may recommend amendments to questions during the moderation of examination papers. In this case, the Paper Setters must follow the Board's comment and amend the paper in the context of:
 - a) rephrasing the question;
 - b) altering the length of the question;
 - c) the number of areas being asked in the question.
- 3.2.3.6 In the event of different opinions on the question papers between the Paper Setters and the BOE, the papers should be passed to the Chairperson of the E&T Committee for final decision.
- 3.2.3.7 The BOE must ensure that the Markers adhere to the marking scheme in marking the answer scripts and maintain a high and consistent quality of marking.
- 3.2.3.8 The BOE is empowered to have access, if necessary, to all Professional Qualifying Examination papers and answer scripts including those not being selected for auditing.

- 3.2.3.9 The BOE confirms the consolidated examination results of all subjects.
- 3.2.3.11 The BOE is responsible for making a decision on the final appeal made by an appellant against his/her examination result in one or more of the examination subjects. The BOE may recommend "to alter or not to alter the overall result for that subject for the appellant, subject to finding in the appeal case.

3.2.4 <u>Paper Setters</u>

- 3.2.4.1 The Paper Setters are selected from qualified academics from universities/colleges, or professionals from the Government and the industry. Each examination paper shall consist of:
 - a) set 10-15 questions in accordance with the prescribed subject syllabus. The paper must be printed, or written in block letters with black ink or ball point (see Appendix I);
 - b) provide fully worked suggested answers (see Appendix J) to the question paper. The suggested answers must either be printed or written in block letters with black ink or ballpoint. These suggested answers must be put in a form suitable for publication. If diagrams are used, they must be drawn with black ink or ballpoint;
 - c) prepare a fairly assigned marking scheme (see Appendix K) using the mark of 50 out of a 100 as the passing mark for each paper. The maximum mark for each question should be 25.
 - d) ensure that the question papers are original and will not infringe the copyright of any third party;
 - e) ensure that the question paper:
 - is set in accordance with and adequately covers the syllabus prescribed by the Institute;
 - can be completed by an average candidate within the allotted time;
 - is accurate in all respects, that is, including the suggested answers;
 - is printed in a form and style laid down by the Institute;
 - f) co-operate with the BOE to ensure that the question papers and suggested answers comply with the standards and requirements of the Institute.
 - g) let the Chairperson of the E&T Committee to give final decision to resolve any differences in opinion between the Paper Setters and the BOE regarding the examination papers.

3.2.5 Invigilators

- 3.2.5.1 The E&T Committee should recruit sufficient part-time staff (if required) to carry out examination invigilation. These invigilators are only employed for the duration of the examination and their remuneration is paid on an hourly basis.
- 3.2.5.2 The Chairperson of the E&T Committee appoints one of the invigilators in an examination centre as the Chief Invigilator.
- 3.2.5.3 The Sub-committee should assign appropriate number of invigilators to oversee the examination process. (That is, one invigilator if the examination room is accommodating up to 20 candidates, or two invigilators if the examination room is accommodating up to 60 candidates, or three invigilators for an examination room

of 120 candidates, or five invigilators for an examination hall of 200 candidates.)

3.2.5.4 The terms of reference of the invigilators are:

- a) ensuring that the examination is conducted smoothly and in a fair manner within the examination venue;
- b) ensuring that there is no violation of the examination regulations by any candidate;
- c) ensuring that the examination is being conducted within the specified time schedule.

3.2.5.5 The Chief Invigilator is responsible for:

- a) receiving the examination papers, answer books, supplementary answer sheets, tag string, etc., from the CILTHK Office;
- b) ensuring that other invigilators are carrying out their duties within the regulations of the examination laid down by the PQE Sub-committee;
- c) ensuring that the candidates are waiting outside the examination hall until 10 minutes before the time of examination;
- d) reminding the candidates that they are only allowed to sit according to the seating plan and that they must put their books and notes at the back side of the examination hall;
- e) reminding the candidates that they can only bring into the examination hall the necessary stationery and non-programmable calculators;
- f) reminding the candidates that they cannot leave the examination hall within the first half hour of the examination and within the last half hour of the examination;
- g) exercising other necessary duties in the context of examination invigilation;
- h) reporting any cheating incidents to the authorised member(s) of the PQE Sub-committee who will take further action to handle the case;
- i) tallying the number of all answer scripts and see whether it agrees with the number of answer books issued before the candidates are allowed to leave the examination hall;
- j) returning the examination papers, answer scripts, examination attendance sheet and unused stationery back to the CILTHK Office.

3.2.5.6 Invigilators are responsible for:

- a) distributing examination papers, and answer books on each desk assigned for the examination 30 minutes before the time of examination;
- b) putting up the seating plan outside the examination hall for the candidates to follow;
- c) checking the candidate's PQE Entry Admission Form against their HKID cards (number and photograph);
- d) attending to the candidates' requests for assistance whenever they raise up their hands;
- e) ensuring that the examination process is properly invigilated with the assistance of other invigilators, if any, present in the hall;
- f) reporting to the Chief Invigilator the name(s) of the candidate(s) who is (are) found cheating by any means during the examination. The examination paper(s) and answer book(s), plus the material evidence, of the cheating candidate(s) will be confiscated and the candidate(s) is (are) told to leave the hall immediately;

- g) collecting all answer scripts from the candidates' desks at the end of each examination;
- h) tidying up the hall and preparing it for the next session of the examination or restoring it to its original conditions.

3.2.6 <u>Paper Markers</u>

- 3.2.6.1 The E&T Committee should recruit sufficient Paper Markers to mark the answer scripts of a certain subject in accordance with the suggested answers provided. The Markers could be the Paper Setters themselves, or some other members of the Institute.
- 3.2.6.2 The Markers should mark the answer scripts in accordance with the suggested answers and the marking scheme provided. They should mark the paper impartially, without any bias from their own individual points of view.
- 3.2.6.3 The award of marks to each answer should be fair and consistent among all candidates.
- 3.2.6.4 The Marker should complete marking all assigned answered scripts within three weeks from the date he/she receives the scripts from the authorised member(s) of the PQE Sub-committee.
- 3.2.6.5 Each Marker should complete the attached examination result sheets with information about each candidate's overall marks and the numbers attempted.
- 3.2.6.6 Each Marker should submit a summary to the PQE Sub-committee about the overall performance of the candidates in answering their questions. Any major/common misunderstanding or faults in the candidates' answers should be reported in this summary.

3.3 General Administration

Table 3.3.1 shows the major stages of administration dealing with examination matters. Brief explanation of these stages of events and the parties responsible for such events are given.

Table 3.3.1 Administrative Structure

Examination	Brief Descriptions	Responsible Parties
Events		
Note of	Issue notice to all examination	E&T Committee
Examination	candidates	
Announcement of	Decide which examination	E&T Committee
examination	subjects are offered in the	
subjects and	examination, together with	
syllabuses	corresponding syllabuses	
Setting of	Appoint qualified lecturer(s) to	E&T Committee and PQE
examination papers	set the examination papers,	Sub-committee
	with model answers and	
	marking schemes	

Moderation of papers	Check the standard of papers	BOE
Arrangement of Examinations	Arrange registration of candidates, examination dates and venues, printing and despatching of papers and other related matters	PQE Sub-committee
Marking of examination scripts	Appoint qualified lecturers to mark scripts	E&T Committee
Confirmation of examination results	Audit and approve the examination results	BOE
Announcement of examination results	Decide the final results of the examinations	E&T Committee
Appeal	Determine the validity of the appeal	E&T Committee & BOE

Appendix C shows the structure of the CILTHK Professional Qualifying Examination subjects to be offered for the different levels of academic/professional achievements.

3.4 Detailed Arrangements

In accordance with the general administration of examinations, the detailed arrangements of examinations should follow the time frame and the procedures stipulated below:

3.4.1 November

3.4.1.1 The E&T Committee proposes to the Council a list of professionals/lecturers to be appointed as members of BOE.

3.4.1.2 The E&T Committee starts to:

- a) review the current syllabuses of the examination subjects;
- b) recommend new reference books to suit any newly proposed syllabus;
- c) prepare the examination timetable and work schedules;
- d) prepare and approve the budget for the upcoming examinations.

3.4.2 <u>December</u>

- 3.4.2.1 The PQE Sub-committee selects and books appropriate examination venues.
- 3.4.2.2 The PQE Sub-committee starts to recruit suitable number of invigilators.
- 3.4.2.3 The PQE Sub-committee prepares the examination entry forms and starts to register the candidates for the examinations in May.

3.4.3 January

3.4.3.1 The deadline of the examination registration is on the last Friday in January.

- 3.4.3.2 The PQE Sub-committee credits the examination fees into the bank account of CILTHK.
- 3.4.4 February
- 3.4.4.1 The Chairperson of the E&T Committee invites qualified lecturers or professionals to serve as Paper Setters.
- 3.4.4.2 The E&T Committee must ensure that all question papers set by the Paper Setters, are sealed in envelopes/encrypted email(s) and sent to the PQE Sub-committee by the end of February.
- 3.4.4.3 The Chairperson of the E&T Committee must ensure that the model answers for the selected questions or examination subjects and the corresponding marking schemes are locked in a highly secured cabinet/password-saved softcopy accessible only to the authorised member(s) appointed by the Chairperson of the PQE Sub-committee.
- 3.4.4.4 The PQE Sub-committee arranges to have the moderated question papers to be typed in an appropriate format and in a strictly secure manner. All typed question papers must be proof-read for typographical errors.
- 3.4.4.5 The PQE Sub-committee must finalise the examination timetable.
- 3.4.5 <u>March</u>
- 3.4.5.1 The E&T Committee ensures that the PQE Sub-committee has submitted the question papers to the BOE for moderation.
- 3.4.5.2 The BOE must complete the moderation process for each formal examination paper within two weeks after receiving the question paper(s) from the Sub-committee.
- 3.4.5.3 The PQE Sub-committee confirms all arrangements about the examination halls and the recruitment of Invigilators, if any.
- 3.4.5.4 The PQE Sub-committee notifies the registered candidates about the examination timetable and the examination venues by email and/or post. A memorandum on the rules of examinations and the behaviour of candidates inside examination halls must also be enclosed. Another memorandum informing the registered candidates of the possible remedial action if they fail to receive the PQE Entry Admission Form by the third week of April.
- 3.4.5.5 The PQE Sub-committee arranges to print the examination answer books and supplementary answer sheets by a contracted printer, if requires.
- 3.4.5.6 The PQE Sub-committee prepares the examination result sheets for use by the Markers. The names of the registered candidates for all subjects must be entered into the examination result sheets by the PQE Sub-committee before the examinations.

- 3.4.6 <u>April</u>
- 3.4.6.1 The PQE Sub-committee selects eight out of the 10-15 proposed questions for each examination paper.
- 3.4.6.2 The Sub-committee arranges to print the question papers, which should be sorted by examination date and examination subject. These question papers should be sealed in envelopes or parcels. Only the required number of copies of each examination paper should be printed. (Note: the required number for each examination paper is the number of registered candidates plus five more copies.)
- 3.4.6.3 The Chairperson of the E&T Committee must ensure that these printed question papers are kept in sealed envelopes or parcels and they must be locked in a cabinet which is only accessible to the authorised member(s) appointed by the Chairperson of the PQE Sub-committee.
- 3.4.6.4 The PQE Sub-committee issues an examination notice (with unique identification number) to each registered candidate not later than the second week in April.
- 3.4.6.5 The PQE Sub-committee takes immediate remedial action to issue a replacement to any candidate whose PQE Entry Admission Form might have been lost in the post. The replacement PQE Entry Admission Form must only be issued upon a signed application from the registered candidate.
- 3.4.6.6 The PQE Sub-committee must also cancel and revoke the PQE Entry Admission Form that has been issued but lost in the post. The identification number of the lost PQE Entry Admission Form must be recorded for reference and/or action in the future.
- 3.4.6.7 The PQE Sub-committee arranges to print the question papers under strict security control. (Refer to 3.5.5 for alternative action plan.)
- 3.4.6.8 The PQE Sub-committee prepares the seating plan for each examination.
- 3.4.7 <u>May</u>
- 3.4.7.1 The PQE Sub-committee supervises the examination process and ensures that the examination is conducted in accordance with the examination instructions and guidelines approved by the E&T Committee and the CILTHK Council.
- 3.4.7.2 The PQE Sub-committee must ensure that high security is maintained during the despatch and receipt of the question papers and examination answer books by the Invigilator(s). Relevant documents such as the list of registered candidates for the subject concerned, notes of guidance for the Invigilator(s), and the seating plan must also be enclosed.
- 3.4.7.3 The PQE Sub-committee sends the answered scripts, together with the corresponding model answers, marking schemes and examination result sheets, to the Markers.
- 3.4.7.4 The Markers must complete marking the papers within four weeks after the examination. They must return all answer scripts, marking schemes, and the

- examination result sheets to the PQE Sub-committee in sealed envelopes or parcels before the deadline.
- 3.4.7.5 The Markers must also provide a summary on the performance of the answer scripts and their remarks about the quality of the answers given in the answer scripts. This feedback on the summary and remarks made by the Markers must be attached to the examination result sheets when the Markers return the marked scripts to the Sub-committee Chairperson.
- 3.4.8 <u>June</u>
- 3.4.8.1 The PQE Sub-committee consolidates all examination result sheets.
- 3.4.8.2 The PQE Sub-committee sorts out three best scripts, three borderline scripts and three lowest marks scripts from each subject's answered scripts. (Any subject with less than 25 candidates has two answer scripts instead.) These selected scripts will be passed on to the BOE before the end of June for further action.
- 3.4.9 <u>July</u>
- 3.4.9.1 The BOE checks the selected scripts to substantiate the standard of marking among the Markers. Whenever necessary, the BOE will recommend to the E&T Committee to adjust the marks of the papers.
- 3.4.9.2 The BOE returns all the audited papers and approve the examination results to the E&T Committee not later than second week of July.
- 3.4.9.3 The E&T Committee confirms the examination results and the list of candidates who are eligible for the Best Paper Awards.
- 3.4.9.4 The E&T Committee proposes those Best Paper Awards recipients to the Council.
- 3.4.9.5 The BOE will evaluate all answer scripts, if necessary, in order to come up with a consolidated review on the quality and performance of the examination for future guidance. This review may also include the feedback on the overall performance of the answer scripts and the remarks made by the Markers.
- 3.4.10 <u>August</u>
- 3.4.10.1 The PQE Sub-committee notifies each registered candidate of his/her examination results by post not later than mid-August.
- 3.4.10.2 The E&T Committee prepares to receive any appeal application(s) from the registered candidates, within the next three weeks after the announcement of the examination results.
- 3.4.11 <u>September</u>
- 3.4.11.1 The E&T Committee will notify the candidate (if any) the results of the appeal by post.
- 3.4.11.2 The E&T Committee publishes the "Question Papers and Suggested Solutions".

This report serves as a consolidated summary on the common faults in attempting the examination papers, may incorporate some reviews of the Paper Markers on the performance of the answers given by the candidates. This summary may serve as reference to future paper setters, examiners, candidates and other interested parties.

3.5 Security

- 3.5.1 High security must be imposed on all of the following stages:
 - a) custody of the proposed examination papers;
 - b) handling of the proposed examination papers between the BOE and the PQE Sub-committee;
 - c) printing of examination papers;
 - d) packing of examination papers;
 - e) despatch of examination papers and answer books on the dates of examination;
 - f) receiving of examination papers and answered scripts after the examination.
- 3.5.2 When the PQE Sub-committee receives the proposed examination papers from Paper Setters, the following measures must be taken:
- 3.5.2.1 The PQE Sub-committee must ensure that all proposed examination papers are sealed in envelopes/encrypted email(s), subject by subject, whereas sealed envelopes are locked in a secured cabinet.
- 3.5.2.2 No person other than the appointed member(s) of the PQE Sub-committee/designated staff is allowed to open the secured cabinet/access encrypted email(s). The secured cabinet should only be opened when the authorised member(s) of the PQE Sub-committee/designated staff is (are) required to retrieve or return the proposed or formal examination papers from or to the cabinet.
- 3.5.2.3 Before the examination, the sealed pack/encrypted email(s) may be opened for the purpose of moderating the examination paper(s) by the BOE. If the sealed pack/encrypted email(s) is(are) opened or damaged on any occasion other than for moderation or at the examination hall(s), all the examination papers in this unsealed-or damaged-pack or damaged-file are invalid.
- 3.5.3 When moderation of question papers is taking place, the following measures must be taken:
- 3.5.3.1 Security must be ensured during the time when the authorised member(s) of the PQE Sub-committee/designated staff gives the proposed examination papers to the BOE for moderation. The member(s)/designated staff should remind BOE members of strict confidentiality when the examination papers and or file(s) are under their custody.
- 3.5.3.2 The BOE must return the moderated examination paper(s) in sealed envelopes to the authorised member(s) of the PQE Sub-committee/designated staff who will return the sealed pack into the secured cabinet.
- 3.5.3.3 The authorised member(s) of the PQE Sub-committee/designated staff should keep

- the same degree of high security regarding the BOE's comments.
- 3.5.4 When the examination papers are printed, the following measures must be taken:
- 3.5.4.1 The authorised member(s) of the PQE Sub-committee/designated staff must ensure that the reserved printing room is restricted to himself/herself plus one printing worker only, if any. The printing process must be done under tight security.
- 3.5.4.2 The authorised member(s) of the PQE Sub-committee/designated staff must ensure that the total number of sheet of papers used in printing must be counted before and after the printing of examination papers.
- 3.5.4.3 The authorised member(s) of the PQE Sub-committee/designated staff must destroy all test printing pages and any corrupted printing pages before the next step of action (that is, packing).
- 3.5.5 When packing the examination papers, the following measures must be taken:
- 3.5.5.1 The authorised member(s) of the PQE Sub-committee/designated staff must sort the printed examination papers by examination subject and examination date.
- 3.5.5.2 The authorised member(s) of the PQE Sub-committee/designated staff must pack the examination papers in large-size manila envelopes. The total number of examination papers per subject to be printed and packed must be equal to the number of registered candidates seating for the subject examination plus five examination papers more. (Remark: These extra examination papers are spares copies. After the examination, one copy is the Marker's copy and the remaining four copies will be put in the CILTHK library for future references.)
- 3.5.5.3 The authorised member(s) of the PQE Sub-committee/designated staff must seal the packs of examination papers and return them to the secured cabinet for custody.
- 3.5.6 On the day of the examination, the following measures must be taken:
- 3.5.6.1 The appointed invigilator(s) must get the correct packs of examination papers, answer books and supplementary answer sheets plus tag strings from the authorised member(s) of the PQE Sub-committee/designated staff. That supervisor or Invigilator must sign for the receipt of examination papers. He/She then travels and delivers the examination papers and answer books to the examination hall.
- 3.5.6.2 The examination hall supervisor or the Chief Invigilator must not open the sealed pack(s) earlier than 30 minutes before the examination time. The examination papers must be distributed to each candidate's desk together with an answer book at least 10 minutes before the examination starts.
- 3.5.6.3 The Chief Invigilator must ensure that no candidates are allowed to enter the hall until 10 minutes before the examination starts.
- 3.5.7 At the end of the examination, the following measures must be taken:
- 3.5.7.1 The Chief Invigilator must account for the five copies of question papers (or less than five with justification), and answer scripts. Any supplementary answer sheets

- used by the candidate(s) must be tagged properly with the answer script(s) before collection. Any unused answer books must also be collected and returned to the Sub-committee.
- 3.5.7.2 The Invigilator must put the answer scripts and the examination papers in the envelopes provided and seal them properly. He/She then delivers the sealed packs of answer books and examination papers plus unused stationery in person to the authorised member(s) of the PQE Sub-committee/designated staff.
- 3.5.8 When passing or receiving the answer scripts to or from the Markers, the security measures are as follows:
- 3.5.8.1 The authorised member(s) of the PQE Sub-committee/designated staff must ensure that sealed pack(s) of answer scripts are sent by a secured method to the marker(s) for marking. Documents, such as the model answers, the marking schemes and the examination result sheets for the corresponding subject examination, must also be sent with the sealed packs.
- 3.5.8.2 Each Marker must complete the marking of examination scripts within four weeks from the date he receives the sealed pack(s) of answer scripts. He needs to return all the answer scripts together with the completed examination result sheets in a sealed pack to the PQE Sub-committee.
- 3.5.9 The PQE Sub-committee must keep in custody of all the marked answer books for at least one year. These marked answer books shall be destroyed after the expiry of this year of custody.

3.6 Appeal Procedures

- 3.6.1 A candidate may appeal against the results of the examination of any subject if he/she has a good reason to believe that:
 - (a) there may be an error in the marking of his/her answer script, or
 - (b) there has been an irregularity in the conduct of an examination.
- 3.6.2 The appellant has to lodge an appeal within 21 calendar days after the announcement of the results.
- 3.6.3 The appellant has to pay HK\$800 per subject for the appeal. (The amount is subject to adjustments as approved by the CILTHK Council.)
- 3.6.4 After receiving the written petition and the appropriate fee for the appeal, the E&T Committee will re-examine the paper, focusing on the reason(s) being listed in the appeal.
- 3.6.5 If the appeal is found with valid grounds, the E&T Committee will re-adjust the marks and amend the results accordingly. The E&T Committee Chairperson will notify the appellant accordingly.
- 3.6.6 If the appeal is found with no valid grounds, the appellant will be notified by the E&T Committee Chairperson accordingly. If the appellant is still not satisfied with

the appeal results, he/she can make a second appeal. This second appeal shall be attended by the Appeal Panel formed from the BOE to review the answer script again. The verdict of this Appeal Panel is final.

- 3.6.7 The Chairperson of the E&T Committee will notify the appellant formally about the results of the appeal within one calendar month. The normal result of an appeal would either be (i) a re-adjusted mark or grade for the appellant's examination subject, or (ii) retaining the original marking score.
- 3.6.8 The payment for the appeal will not be refunded in any circumstances.

4. INDIVIDUAL-BASED ACCREDITATION

4.1 Requirements

- 4.1.1 The requirements specified are laid down for the following purposes:
 - a) To provide guidelines for the assessment of exemption applications from individual member with acceptable qualifications;
 - b) To lay down the procedures to handle exemption applications from individual member;
 - c) To maintain a high standard of the Institute's professional qualification.

4.1.2 The general rules are:

- a) Exemption may be given to an applicant by virtue of his/her previous studies and examination results;
- b) Exemption will not be considered for any incomplete qualifications;
- c) If 70% or above is identical in mapping the syllabus coverage, exemption may be considered;
- d) For external pass gained in courses of studies at the tertiary institutions, exemptions will be granted on subject to subject bases with examination results at Grade C/60% Marks or above;
- e) Qualifications awarded from overseas institutions will be considered based on individual merits;
- f) No exemption will be given to applicants whose qualifications are obtained by exemptions granted by local or overseas educational institutes.

4.2 Application Procedures

- 4.2.1 After receiving the application, the Chairman of E&T Committee or the Chairman of PQE Sub-committee will evaluate the qualifications of the applicant and will report to the E&T Committee for the decisions.
- 4.2.2 The applicant will be informed by writing of the result made.
- 4.2.3 Exemption fees will be charged to applicants and once paid they are non-refundable.

4.2.4 The E&T Committee will assess the exemption fees at regular intervals with the rights to amend the fees.

4.3 Appeal Procedures

- 4.3.1 An applicant who is dissatisfied about the decisions of the E&T Committee may write to the Committee stating clearly his/her reasons for appeal. The E&T Committee shall look into the case again in view of the reasons given.
- 4.3.2 A fee will be charged to applicants and once paid it is non-refundable.
- 4.3.3 If the applicant is dissatisfied about the decisions of the E&T Committee after the appeal review, he/she may write to the CILTHK Council stating clearly the reasons for appeal. An additional amount will be charged to the applicant and once paid it is non-refundable.
- 4.3.4 The CILTHK Council shall consider the case and inform the applicant about its decision within one month after receiving the appeal case.
- 4.3.5 The decision of the CILTHK Council will be final.

5. CONTINUING PROFESSIONAL DEVELOPMENT

5.1 Background and Objectives

- 5.1.1 The competitive economic environment and the ever-changing techniques in logistics and transport industry demand CILT members to constantly update their knowledge and skills in order to maintain their professional competence and technical knowledge. The Institute recognises that it is not possible to achieve this purely through working experience. An effective Continuing Professional Development (CPD) programme is one way in which members can seek to achieve this target.
- 5.1.2 In addition, the CPD programme is also a means to encourage members to strive for continuous improvement of their competence not only in their respective area but also in wider areas of logistics and transport industry.
- 5.1.3 The objectives of the CPD programme are:
 - a) To maintain and enhance the professional knowledge of members;
 - b) To assist members to acquire new knowledge and technique, to understand the recent development of logistics and transport field, and to meet the changing economic environment;
 - c) To provide reasonable assurance to the public that members have the professional knowledge and skills required to perform their tasks.
- 5.1.4 The Institute recognises that the effectiveness of CPD is best measured in terms of what has been learned as well as the relevancy of the nature of CPD activities to the

logistics and transport.

5.2 Structure

- 5.2.1 There are two categories of CPD. They are "structured" (formal learning) and "unstructured" (informal learning) CPD. CPD points are awarded to members taking part in these kinds of structured or unstructured CPD activities.
- 5.2.2 <u>Structured CPD</u> can be achieved through interaction with other individuals (not necessarily other members). For example, attending technical meetings, seminars, lectures, courses (including pre-course or meeting preparation) could constitute structured CPD. This may also be achieved through distance learning, where the course is assessed and/or leads to a further qualification. Research for a new piece of work is also considered to be a structured activity since the knowledge gained will be actively applied.
- 5.2.3 The following activities are considered structured CPD activities, to the extent that the material prepared or reviewed or participation by the member is relevant to professional development:
 - a) Attendance at conferences, seminars of professional bodies;
 - b) Distance learning with feedback or some form of assessment;
 - c) Studying for a professional qualification;
 - d) Undertaking research;
 - e) Attendance at job related short courses;
 - f) Teaching and making presentations (repeated presentations of the course should be considered for this purpose);
 - g) Writing of technical or professional articles, papers or books;
 - h) Undertaking technical research for a new piece of work;
 - i) Participating in seminar organised by CILTHK with similar nature in logistics and transport industry;
 - j) Participating in other activities including site visit recognised by E&T Committee for CPD purposes.
- 5.2.4 For structured CPD activities which require more time to achieve the goal as stipulated in clauses 5.2.3 from (a) to (j), they will be awarded 10-200 CPD points for each of these activities.
- 5.2.5 All structured CPD activities shall be recognised by CILTHK. The organisers of these structured CPD activities shall apply to the E&T Committee for recognition (Appendix O). The E&T Committee shall issue an accreditation letter to the organisers if the activities appropriately meet the CPD requirements. CILTHK reserves the right to charge administrative fees for such accreditation services.
- 5.2.6 All applications of accreditation for the purpose of CPD shall be made at least one week prior to the events. In cases where applications are made after the events, details of the activities that have taken place shall be provided for assessment.
- 5.2.7 <u>Unstructured CPD</u> is normally achieved through private reading and study. It will usually be undertaken as part of a regular and gradual development programme.

- 5.2.8 The following activities constitute unstructured CPD learning activities:
 - a) Reading of technical and professional literature.

 Reading of recognised professional journals and magazines may be considered as part of CPD. Individuals may have to decide up to what extent reading particular items constitutes CPD, and to record these specific items on their CPD form. It is up to E&T Committee to consider whether the activities constitute CPD. Mere subscription to a publication does not constitute CPD.
 - b) Individual home study.

 Viewing of videos, television programmes, the use of audiotapes, participation in computer based learning programmes, distance learning or any alternative form of learning where there is no interaction with other individuals, and no assessment (in the form of a further qualification) may also constitute CPD. Individuals are required to record these specific items on their CPD forms and it is up to E&T Committee to consider whether the activities constitute CPD.
 - c) Serving as a member of committees and working groups of a professional body.
 - d) Coaching and mentoring.
- 5.2.9 Unstructured CPD activities stipulated in clauses 5.2.9 (a) and (d) will be awarded 10-40 CPD points for each of these activities.
- 5.2.10 The following activities would <u>not</u> normally be considered as structured or unstructured CPD activities:
 - a) Normal working activities (other than research):
 - any activities carried out as part of member's daily work;
 - activities carried out outside office hours which are similar to daily work.
 - b) Internal meetings:
 - held specifically for staff where the purpose is to acquaint participants with the mechanics and administration of the organisation;
 - board/partners' meetings, Annual General Meetings, Extraordinary General Meetings and other similar meetings (where the subject matter is not technical).

5.3 Requirements

- 5.3.1 Members are required to maintain sufficient records and documentary evidence to support their attendance or completion of structured CPD activities for a minimum of two years, and to provide such records and documentary evidence when they are selected for a random audit to be conducted biennially by the Institute.
- 5.3.2 It is the liability of members to keep and maintain a good CPD records. In case of being selected, members must produce their own CPD records and necessary information and documentary evidence for audit at the appointed time. A sample of the CPD record form is shown in Appendix N.
- 5.3.3 In consideration of the minimum CPD requirements, the Institute recognises that the effectiveness of CPD is best measured in terms of what has been learned as well as the relevancy of the nature of CPD activities to logistics and transport. In this

- regard, a point system is introduced as the yardstick of this system.
- 5.3.4 The minimum CPD points required for a CMILT are at least 200 CPD points in every two years.
- 5.3.5 Members may use their discretion in determining the supporting documentation necessary to show that they have participated in a structured CPD activity.
- 5.3.6 Credit given for unstructured CPD activities should be no more than 100 CPD points.

5.4 Non-compliance

- 5.4.1 The Institute's intention in introducing the CPD requirements is to ensure that the professional competence of members is maintained and enhanced. Therefore, the monitoring mechanism will initially focus on bringing members into compliance within a reasonable period of time.
- 5.4.2 The Council has delegated the E&T Committee to monitor members' compliance with the requirements of CPD.
- 5.4.3 The E&T Committee shall carry out a biennial audit of members' compliance with the CPD requirements. The Institute will generate a random sample of members to be audited. Members selected are notified in writing and required to submit to the Institute their CPD records for the immediate preceding 24-months, together with all relevant documentary evidence, wherever possible and applicable, to support attendance or completion of the structured CPD activities that they have identified in their CPD records.
- 5.4.4 Upon request by the E&T Committee, members shall provide the necessary information or documentary evidence within a reasonable period of time for the annual audit.
- 5.4.5 The E&T Committee may inquire into apparent failures by members in complying with the CPD requirements, and may deal with a complaint made in relation to CPD requirements. The determination of whether a member has breached the CPD requirements rests with the E&T Committee.
- 5.4.6 Members who fail to meet the minimum CPD requirements will be given advice on the appropriate CPD activities and an action plan for completing the shortfall within a reasonable period of time. The E&T Committee will give a written warning to a member for non-compliance of CPD requirements.
- 5.4.7 In case of persistent non-compliance with CPD requirements after two written warnings within one year, the member's case will be referred to the Council.
- 5.4.8 Extreme cases of failure to comply or persistent non-compliance with CPD requirements referred to the Council may lead to the disqualification of members.

Appendix A Professional Qualification Programme

Remarks: PQE is CILTHK Professional Qualifying Examination



DRIVING KNOWLEDGE, DELIVERING QUALITY

Our Key Knowledge Areas



Key Knowledge Areas Contents Introducing the Key Knowledge Areas How the Key Knowledge Areas link to professional development and career progression The different ways of using the Key Knowledge Areas - University sector - Qualification development - In-company programmes - Membership elections - Benchmarking and short courses / Continuing **Professional Development** The Key Knowledge Areas for Chartered Membership 12 of CILT - Overarching Customer and Continuous Improvement Principles - Core Generic Areas - Specialist Key Knowledge Areas Toolkit Resources and Support See back cover Where to go for help and advice See back cover

Driving Knowledge, Delivering Quality

Introducing the Key Knowledge Areas (KKA)

The Chartered Institute of Logistics and Transport (CILT) is a global membership body with over 34,000 individual members in over 34 countries across the world. Each CILT body shares common standards for CILT membership. This document provides guidance on the Key Knowledge Areas for Chartered Membership (version 2017).

The KKA provide the benchmark for meeting the knowledge requirements for Chartered Membership (CMILT) of the Institute.

The KKA are used to provide the basis for the development of CILT qualifications and the accreditation of university degrees and incompany development programmes. Sometimes referred to as the Body of Knowledge, the KKA describe the concepts which make up the Institute's professional domain and footprint.

In developing and updating the KKA, it is important to ensure that the KKA do not date too quickly. They are written in a manner which can accommodate the rapid speed of change within the world of transport and logistics, and external factors which may impact on the profession.

The KKA must also reflect our global community and our international values.

There are four groups of Core Generic Areas which apply across the profession, whether an individual works in planning, management or any other sector within the transport and logistics industry. All areas are overarched by a customer facing approach.

These Core Generic Areas are complemented by eight Specialist Key Knowledge Areas (Technical Areas) as shown in the diagram below.

Additional guidance on how the Core Generic Areas can be interpreted in the context of the Specialist Areas will be developed and available in autumn 2017.

Key Knowledge Areas Framework

Core Generic Areas	Specialist Key Knowledge Areas
a. Integrated strategic planning,	sı Supply Chain Management
management and systems thinking	s ₂ Operations Management
- Efficiency quality and risk	s ₃ Procurement and Supplier Management
3. Efficiency, quality and risk	s4 Logistics Systems
c. Technology, analysis, adoption	ss Transport Infrastructure and Network Planning
and monitoring	se Passenger Movement
o. Society, sustainability and the	s7 Freight Movement
global community	sa International Trade and Transport

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How the Key Knowledge Areas link to professional development and career progression

As a global professional body, CILT needs to define what it expects individuals to *know*, particularly those entering the profession as a younger person or those moving across into a transport or logistics role later in their careers.

The KKA define both the *breadth* (Core Generic Areas) and *depth* (Specialist Areas) of knowledge expected as a professional matures, so that they can become rounded professionals. However, knowledge is only one aspect that we need to consider when electing individuals for assessed membership grades, as knowledge must be complemented by *experience* and *competence*.

BROAD

D Functional area, discipline, or speciality

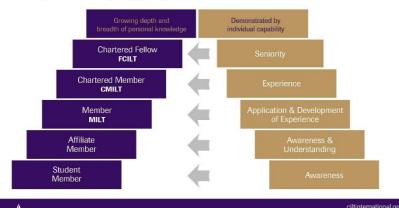
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When electing members to Chartered Membership, we would expect them to demonstrate a thorough knowledge of most, if not all, of the Core Generic Areas. In addition, it would also be mandatory for members to be able to demonstrate a detailed knowledge in at least one of these Key Specialist Areas.

The diagram below illustrates how the Key Knowledge Areas map to the different levels of CILT membership and the growing depth and breadth of knowledge that we would expect to see. For graduates and those learning through vocational qualifications, we would also expect to see a focus on enrichment of knowledge early on in their careers, moving into application later on.

When electing individuals to membership, applicants need to demonstrate that they have relevant experience and are competent to operate at the level for which they are applying. There are separate criteria dealing with experience and how this should be evidenced. Please refer to the International Membership Guidelines for more information.

Climbing the 'Knowledge Steps' - Applying Key Knowledge Areas to Professional Membership



The different ways of using the Key Knowledge Areas

The KKA are used in several ways as explained in the diagram below.

We expect there to be a clear and consistent mapping process evidenced in university accreditation, development of CILT qualifications and in-company programmes. This is to ensure that the relevant Key Knowledge Areas are covered in the development of new qualifications, or the reviewing of existing courses.

It is important to recognise that the Key Knowledge Areas are a global reference tool, and should be referred to when CILT country organisations are seeking governmental or ministerial approval of CILT programmes within their country.

The KKA underpin membership assessments. However as part of that separate process, the individual's relevant experience, competence and knowledge levels are reviewed as a whole.

For the final area of benchmarking the KKA provide a clear blueprint for education providers who wish to develop and deliver courses that adhere to CILT best practice and can qualify for CILT endorsement.



University Sector – Assessment of university degrees for CILT accreditation

Accredited university degrees offer exemption from the education requirements for Chartered Membership of CILT. The accredited programmes should provide for the development in depth of knowledge and skills in specific areas of logistics and transport or related areas.

Students graduating from CILT accredited degree courses gain one year's credit towards the experience requirement. Accredited sandwich degrees with an industrial placement year give two years' credit, as does the combination of an accredited first and higher degree. To qualify for exemption first degrees must be passed with a classification of at least second class honours.

It is normally expected that an undergraduate degree course gaining full accreditation will have at least **75%** coverage of the Institute's Key Knowledge Areas for membership. Postgraduate courses are usually narrower and more specific in scope, so the coverage of the KKA is likely to be more focused on a particular area therefore the **75%** coverage is not applicable.

CILT acknowledges that Bachelors, Postgraduate and Masters Degrees serve different purposes. There are also different definitions of Undergraduate and Postgraduate education across the world. For the purposes of the KKA we are treating UK Level 6 as degree level and UK Level 7 as Postgraduate / Masters level.

This is our benchmark but for any queries on this or other grades (eg MILT) please contact the International Professional Development team at pd@ciltinternational.org

If you are based in the UK please contact pd@ciltuk.org.uk

The programmes can also be delivered over different periods of time and via a range of mechanisms. This accreditation process recognises that:

- A Bachelors level degree delivers a systematic understanding of key aspects of the subject, including the acquisition of coherent and detailed knowledge, informed by current and relevant published academic research in the subject
- Bachelors graduates will be expected to have an ability to deploy accurately the established techniques of analysis and enquiry within the subject
- A Masters level degree delivers in-depth knowledge and understanding of the discipline informed by the highest standards of scholarship and academic research
- Masters graduates will demonstrate a high level of understanding of current issues in the subject and be able to critically evaluate their impact
- Masters graduates will be expected to demonstrate a range of techniques and research methods

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CILT supports the development of degree programmes with an element of work placement or work experience. As applications for Chartered Membership are assessed on a combination of knowledge and relevant experience, a graduate from these degrees would be eligible to use this work experience as part of their membership application process.

The Institute would also like to encourage the development of forward looking and innovative courses particularly at the Masters level. To this end courses that expand and enrich the study of logistics and transport at higher degree level may be considered on their own merits at the discretion of CILT International, CILT (UK) or other relevant Country Accreditation Committees.

CILT does not expect that any one course or programme will demonstrate high levels of content in more than one Specialist Key Knowledge Area, though some may. Some courses may further specialise, focusing content by mode (e.g. Maritime), sector (e.g. Retail), process (e.g. Simulation) or customer (e.g. Humanitarian) aspects.



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Qualification Development – Development of CILT qualifications for Membership and Chartered Membership

The KKA provide a benchmark for the development of CILT qualifications. The CILT Diploma and CILT Advanced Diploma are the two qualifications which meet the educational requirements for Chartered Membership of the Institute, as long as the required experience is also gained in the working environment.

In the UK, these two qualifications are recognised within the UK government qualifications framework at Levels 5 and 6. Internationally these levels are matched by CILT International Diploma and Advanced Diploma qualifications.

The UK qualifications are used as a benchmark for the development and certification of other CILT qualifications, including the International Syllabus. We recognise that different countries may need to adopt an alternative approach to meet their own governmental and ministerial approval requirements, as well as those of local industry.

Submission of the KKA document alongside the course syllabus, learning outcomes, standards and materials will contextualise the product, and ensure that qualification approval agencies understand the breadth and depth of CILT's approach. If individual qualification bodies require more content than the minimum criteria recommended by the KKA guidance, then this should be accommodated with reference to the International Professional Development Coordinator and the country's own CILT Education Team.

The KKA also provide a basis for other CILT qualifications operating at below degree level, but these qualifications are not expected to require the same level and depth of knowledge. They will be expected to address the Core Generic Areas and overarching principles, recognising the importance of the customer and continuous improvement.

In-company programmes – Accreditation of in-company programmes including Graduate Development Schemes

Many organisations operating in the areas of supply chain management, transport planning, operations management, and freight and passenger transport run graduate development schemes to attract and retain new recruits. These schemes enable organisations to develop graduates from a variety of disciplines to meet company-set competences and to provide coverage of the CILT Key Knowledge Areas.

The Accredited Graduate Development Scheme provides a direct route to Chartered Membership of CILT. Participants in accredited in-company graduate development schemes can typically expect to gain access to Chartered Membership at least one year sooner than would otherwise be the case, and in terms of the necessary qualifying period of experience are roughly on a par with candidates with accredited degrees.

Accreditation of a company's graduate development scheme by CILT is based on the candidates meeting the KKA as part of a company specific two or three year in-company programme. This accreditation provides an independent quality mark and assurance of high standards. Having a company programme accredited by a professional body can assist in the recruitment and retention of high quality graduates.

For candidates, accreditation will provide a direct route to Chartered status in CILT, which in turn will provide professional recognition for those developing their careers in the logistics and transport sector.



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Membership Elections – Assessment of individual applications by the Membership Panel for election to Chartered Membership and other assessed grades of membership

The KKA provide the knowledge requirements for eligibility for election to Chartered Member grade. There is complementary guidance on membership elections already in place, highlighting the levels of experience and knowledge needed to achieve different grades of membership. Please refer to the CILT Membership Guidelines or contact CILT International for a copy.

Individuals entering the profession through a non-traditional route can use the KKA as a tool to help identify their knowledge gaps and enhance their membership application.

The CILT Continuing Professional Development Toolkit provides gap analysis tools to help with this process.

Benchmarking – Benchmarking for the content of CILT short courses, modular certification and accreditation of other relevant qualifications

Training providers should be aware that there are separate processes for accrediting and endorsing short courses, both at an international and country level. In addition, providers should clearly differentiate between attendance-based CPD and assessed training.

The Institute has a keen interest in the development of high quality qualifications for the logistics, transport and operations management sectors and therefore are prepared to support and endorse qualifications developed by other organisations.

When individual training providers submit proposals for accreditation we expect them to identify relevant KKA that the course will cover, and specify the level and depth of knowledge addressed by the course content.

The training provider should set out how each qualification will:

- · benefit the profession
- bring benefits to users
- provide opportunities for progression for the individual

In addition, the subject matter of the course as a whole must specify the knowledge, skills and understanding required, and outline what successful students will have *learned* by the end of the programme.



Key Knowledge Areas Driving Knowledge, Delivering Quality Key Knowledge Areas for Chartered Core Generic Areas Membership of CILT Overarching Customer and Continuous A. Integrated strategic planning, c. Technology, analysis, adoption management, and systems thinking and monitoring Improvement Principles · People development, leadership and strategic · Selection of qualitative and quantitative change management methods and techniques Regardless of the sector in which our members The whole set of Key Knowledge Areas also need work, the customer is central. Fundamentally the to be seen in the context of individual decision Data collection and monitoring, analysis · Core economic and market principles profession is dealing with derived demand, where making, and how it can impact on the wider and forecasting · Costing, finance and resourcing customer needs drive our decisions and actions. public, including environmental, socio-economic Setting and achieving performance Identifying the customer and their stake, whether and commercial sustainability. Consideration of · Strategic and operational planning processes measurement (e.g. metrics, KPIs in the supply chain, freight operations, passenger sustainability matters therefore underpins the KKA. · Managing projects and managing operations and benchmarking) transport or trade scenarios, is critical to the KKA. It is for undergraduate and degree-level providers · Application of modelling and simulation Complementing this, the profession has to respond to determine whether they wish to cover these key B. Efficiency, quality and risk to a continual need for service improvement, again principles as stand-alone modules early on in the Innovative applications of technology driven by the customer. Adding value to processes, course, or to embed them within the Core Generic · Process and production management products and services is a key component of both Areas covered next. If the latter option is selected, p. Society, sustainability, and the Operational effectiveness and efficiency public and private sector transport and logistics the coverage of the overarching principles must be global community activities, and needs to be clearly explained to explicit in the course descriptions and content. Quality management strategies learners at the outset of their studies. Society, ethics and Corporate Social · Risk identification, reduction, and Responsibility (CSR) safety management · Social, commercial, economic and Compliance management and environmental resilience value-adding processes National and international policy frameworks and legislation Remember that we would Interdependence and integration expect at least 75% of these Global context and external influences core areas to be covered in Sustainable development a degree-level programme designed to lead to Chartered Membership 12

Key Knowledge Areas

Driving Knowledge, Delivering Quality

Specialist Key Knowledge Areas

Supply Chain Management

- Supply chain objectives, benchmarking and strategies
- 2. Principles of supply chain design and operations including virtual networks
- Supply chain dynamics, analysis, planning and optimisation
- 4. Sourcing, operations planning and procurement
- Managing product / service / packages to end customers
- 6. Inventory management, warehousing, storage and intelligent systems
- Product design, production planning, material, information and financial flow
- 8. Facilities and waste management
- Lean, Agile (including Six Sigma) and competitiveness of supply chains
- 10. Multi-channel supply chains including e-commerce

Operations Management

- 1. Supply chain planning and execution
- Principles of planning and control (e.g. MRP, ERP, S&OP)
- 3. Manufacturing and re-manufacturing
- 4. Process mapping and process logic
- 5. Demand driven planning
- Capacity planning, scheduling, and theory of constraints
- 7. Inventory planning and systems
- 8. Managing systems, monitoring and measurement
- Continuous improvement, optimisation and Lean principles
- 10. Service operations and servitisation

Procurement and Supplier Management

- 1. Market analysis and forecasting
- 2. Project management and supply chain optimisation
- 3. Global sourcing and international trade context
- 4. Tender specification, supplier evaluation and selection
- 5. Contract formation and negotiation
- 6. Legal aspects of procurement and contract law
- 7. Relationship management and collaborative working
- 8. Performance management and benchmarking systems
- 9. Category management principles
- 10. Achieving added value in the procurement process.

Logistics Systems

- 1. Customer service and support systems
- 2. Distribution and transport systems and operations
- 3. Forecasting, planning and scheduling techniques
- 4. Logistics and transport modelling
- Continuous process improvement and supply chain optimisation
- 6. Inventory management and warehousing systems
- 7. Managing and maintaining supply chain visibility
- 8. Meeting demand via ERP systems and e-commerce
- 9. Resource requirement planning
- Control of information and material flow on-time and in-full

Transport Infrastructure & Network Planning

- 1. Policy planning for transport, long and short term
- Transport nodes, connecting links and network structures
- Interrelationship between transport and spatial planning
- Economic appraisal, social and environmental analysis
- 5. Demand and capacity management
- Travel Planning: distance, demand, duration, destination, traffic modelling and management
- 7. Transport infrastructure and network resilience
- 8. Stakeholder engagement and public consultation
- Transport information systems and intelligent mobility management
- Infrastructure and planning sector, and market intelligence

Passenger Movement

- 1. Passenger transport supply and demand principles
- Local, national, international passenger transport policies
- Passenger transport planning and network scope
- 4. Modes, modal choice and transport integration
- 5. Services, types of operation and interoperability
- Passenger transport costing / pricing, obligations
- and subsidies
- 7. Passenger transport ownership and control
- Access and inclusion through transport
- 9. Sustainable transport and behavioural change
- 10. Health and safety, security, and risk assessment

Freight Movement

- 1. Services, types of operation and interoperability
- 2. Intermodal integration and operations
- Transport of dangerous, oversize and hazardous freight
- Freight transport, fleet operations and forward planning
- Scope, capability and efficiency of urban freight transport operations
- Freight forwarding and management of partners and subcontractors
- Local, national, and international distribution networks and regulations
- Modes, modal choice, and multimodal freight transport
- Transport scheduling, routing, back-loading and optimisation models
- 10. Reverse logistics

International Trade and Transport

- International modal choice, inter-modality and security
- 2. Incoterms and contractual obligations
- Customs tariffs, processes, procedures and insurance
- Import, export, bonding and carnet procedures
- Freight forwarding, contracts of carriage, documentation and certification
- Specialist requirements for the carriage of different types of cargo
- 7. Insourcing, outsourcing and offshoring
- International trade facilitation, treaties, finance and settlement
- 9. Trade compliance, licensing and quotas
- 10. Facilities (port, airport) operations

ciltinternational.org

ciltinternational.org

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Toolkit Resources

To support the KKA, additional resources will be produced which individuals can access from CILT International. Further details are available on the CILT International website at ciltinternational.org

These will be released and updated on a regular basis and will cover:

- Examples of Core Generic Areas and how they apply to different discipline areas
- KKA Mapping and Checklist Tool
- How the KKA relate to Membership (MILT) grade
- Frequently asked questions (and answers) as they evolve

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Where to go for help and advice

For further guidance and advice on how to use the KKA documentation please contact:

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For UK and Europe

Dorothea Carvalho
Professional Development Project Director
E dorothea.carvalho@ciltuk.org.uk

_

For all other countries

Jon Harris International Professional Development Coordinator E jon.harris@ciltinternational.org

About the Chartered Institute of Logistics and Transport (CILT)

We are the leading international professional body for everyone who works within supply chain, logistics and transport.

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Contact us

The Chartered Institute of Logistics and Transport Earlstrees Court | Earlstrees Road Corby | Northants | NN17 4AX United Kingdom

-

T +44 (0) 1536 740162 E info@ciltinternational.org W ciltinternational.org

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Appendix C CILTHK Professional Qualifying Examination Structure

- C.1 To avoid any anxiety about drastic changes, the E&T Committee and the CILTHK Council assure all candidates that any necessary changes to the CILTHK Professional Qualifying Examination will be phased in gradually.
- C.2 Diagram C.1 shows the proposed structure of the CILTHK Professional Qualifying Examination from 2017 onwards.

Diagram C.1 Structure of the Professional Qualifying Examination (2017)

Advanced Level Examinations Subjects

Transport Management Stream

- AL1 Law of Business and Carriage
- AL2 Transport Systems and Management
- AL3 Sustainable Transport
- AL4 Transport Policy and Planning

Logistics Management Stream

- AL1 Law of Business and Carriage
- AL5 Global Supply Chain Management
- AL6 Logistics Management
- AL7 Warehousing and Materials
 Handling





Ordinary Level Examination Subjects

- OL1 Business Environment for Transport and Logistics
- OL2 Financial Management & Reporting for Transport and Logistics
- QL3 Marketing and Service Management
- OL4 Management and Decision Making
- C.3 Features of the examination structure include:
- C.3.1 Each examination paper consists of a total of 8 questions. Each of these papers consists of two parts, namely, Part A and Part B. All candidates are required to answer two questions from each part.
- C.3.2 In any one seating, candidates can attempt any number of subjects at either Ordinary

Level or Advanced Level.

- C.3.3 A candidate is eligible for nomination as a Chartered Member when he/she satisfies the educational requirement of passing all eight subjects.
- C.3.4 If the candidate is a Member (MILT) of the CILTHK under the point or experience method, he/she may be exempted from Ordinary Level examination of generic subjects. To be qualified as a Chartered Member (CMILT), the candidate has to complete Advanced Level examination of specialised subjects.
- C.3.6 Exemption of Ordinary Level subject examination would not be granted to any candidate with incomplete qualifications.
- C.3.7 The list of Advanced Level subjects is currently limited to 7, due to resource constraints. More elective subjects may be added in the future when such subjects could be identified and justified.

Appendix D PQE Candidate Handbook

CILTHK Professional Qualifying Examination

Candidate Handbook

Education and Training Committee Updated: April 2021 Copyright: CILTHK

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1.

- 2. Entry Requirement of the Professional Qualifying Examination (PQE)
- 3. The Structure of the Professional Qualifying Examination
- 4. Registration
- 5. Exemption
- 6. Examination
 - 6.1 The Rules of the Examination
 - 6.2 Candidates' Behaviour at Moment Prior to the Examination
- 7. Examination Result Announcement
- 8. Appeal

1. Introduction

This handbook provides general guidelines and rules to all candidates who are aiming to sit for the Professional Qualifying Examination (PQE) of the Chartered Institute of Logistics and Transport in Hong Kong (CILTHK). A candidate passing eight specified subjects satisfies the academic requirements for joining CILTHK as Chartered Member (CMILT).

CILTHK has revised and widened the scope of its existing PQE in order to provide and train qualified transport and logistics professionals to meet the industry's needs.

In Hong Kong, many logistics and transport courses offered by local universities and educational institutions aim to prepare students for the PQE. Details of these courses may be obtained from the office and website of CILTHK. Students of these logistics and transport courses may join the CILTHK as Student or Affiliate Members and will benefit from regular information about activities of the Institute as well as the necessary information concerning with the PQE.

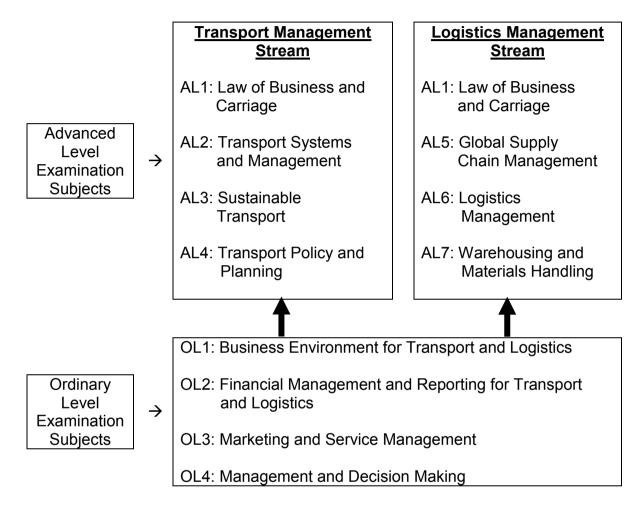
2. Entry Requirement of the Professional Qualifying Examination (PQE)

In view of the high academic standard of the PQE, it is envisaged that most of the candidates should be at least Student Members of CILTHK. If the candidate is not currently a Student Member, he or she must be a Member (MILT) or an Affiliate before he or she is qualified to take the examination. Furthermore, the examination also provides a chance for Chartered Members (CMILTs) to enrich their logistics and transport knowledge.

The structure of the PQE is divided into two levels, which cover 11 subjects with two streams at the Advanced Level. A candidate can attempt any number of subjects at either the Ordinary or the Advanced Level. To meeting the academic requirement for being a Chartered Member (CMILT), candidate will need to successfully complete (and/or be exempted for) the Ordinary Level subjects plus subjects at either Transport or Logistics stream at the Advanced Level (AL). If the candidate obtained Hong Kong Qualifications Framework (HKQF) – Recognition of Prior Learning (RPL) Level 4, he or she requires to successfully complete Paper AL1 – Law of

Business and Carriage, plus any one Advanced Level Paper (Paper 2-7), and also successfully passed a Viva Voce Panel Interview.

3. The Structure of the Professional Qualifying Examination



The list of Advanced Level subjects is currently limited to 7 subjects due to resource constraints. More elective subjects may be added in the future when such subjects could be identified and justified.

4. Registration

All interested persons who want to sit for the PQE must join the CILTHK as Student Members, Affiliates or Members (MILTs). They can then register as candidates to sit for the examination to be held in May each year.

A candidate can attempt any number of subjects. An official application form must be submitted to register into the examination, together with the

appropriate examination fee. This form can be downloaded from CILTHK website or obtained in person from the CILTHK office. The Chartered Institute of Logistics and Transport in Hong Kong, 7/F, Yue Hing Building, 103 Hennessy Road, Wanchai, Hong Kong. <u>Candidates should note that all fees paid are not refundable.</u>

Upon receiving the examination fee, each candidate will receive information about the examination timetable, examination venue(s), and rules governing the candidates' behaviour in the examination, etc.

An official PQE Entry Admission Form will be sent to each registered candidate within the first two weeks in April. This PQE Entry Admission Form is the official document to allow the candidates to sit in the examination. Any candidate who fails to bring his or her PQE Entry Admission Form to the examination venue will not be allowed to take the examination at all. It is the sole responsibility of a candidate to make sure that he or she brings the PQE Entry Admission From at every session of his or her examination.

A candidate who fails to receive his or her PQE Entry Admission Form within the notification period should contact the CILTHK office promptly for a replacement. Again it is the sole responsibility of a candidate to ensure that he or she receives the PQE Entry Admission Form before the commencement of the examination in May.

5. Exemption

Members (MILT) and former Associate Members elected before 30th September 2004 are entitled to an exemption of the Ordinary Level subjects in the PQE. The application of exemption is based on the grounds of the nature of work and years of relevant proven supervisory working experience or the equivalent academic qualification. This exemption application must be addressed to the Chairperson of the Education and Training Committee.

Qualifications from certain professional bodies, universities, or Institutes of Vocational Education may be entitled to the exemption from some subjects of the PQE. It should be noted that the exemption will not be considered for any incomplete qualifications. All exemptions are to be reviewed by the

Education and Training Committee of the Institute.

Exemption application is not open to non-member.

6. Examination

This section gives all candidates the rules of the examination and regulations about their behaviour in the Examination, including pre- and post-examination period.

6.1. The Rules of the Examination

- 6.1.1. Candidates can only be allowed to enter the examination hall from 10 minutes before to 30 minutes after the examination starting time. Any candidate who arrives later than this time will not be allowed to take part in the examination unless he or she has a genuinely good reason. Any loss in the examination time due to late arrival will not be compensated.
- 6.1.2. No candidate is allowed to leave the examination hall within the first half hour of the examination. Any candidate who has finished answering the question paper may leave the examination hall any time but not within the first half hour or the last half hour of the examination.
- 6.1.3. Any candidate must raise his or her hand if assistance is required, including requesting to have physical relief. He or she has to wait until an invigilator comes to find out what assistance is requested. Such assistance must be carried out under the supervision of an invigilator or with the permission from that invigilator.
- 6.1.4. All candidates who are still present at the final half hour of the examination must wait in the examination hall until all answered scripts have been collected and tallied. They are allowed to leave when the Chief Invigilator tell them to do so. When candidates leave the examination hall, they should avoid making loud noise and causing nuisance to people nearby.
- 6.1.5. In the examination, each question paper comprises of two sections, namely Part A and Part B, with four questions being set in each section. Candidates are asked to answer not more than two questions from each section, within a total permitted time of three hours.

- 6.1.6. No programmable calculator is allowed to be used by any candidate in the examination. If a candidate is found to be using a programmable calculator, that calculator will be taken away form that candidate until the examination is over. It is the sole responsibility that all candidates comply with this rule.
- 6.1.7. Any question calling for mathematical solutions must be answered clearly showing all steps of calculation. Any rough work on calculation(s), if done on any page(s) of the answer book, should be crossed out at the end of the examination time so as not to confuse with the answer(s).
- 6.1.8. Candidates should use blue or black ball points or fountain pens to answer the questions. They should not use any ball points of red colour in any circumstances in the examination.
- 6.1.9. Every candidate should complete the front page of the answer book as per instructions printed. Before the answer book is being collected at the end of the examination, the candidate must put all supplementary answer sheets, if used, in the answer book and has them tagged together.
- 6.1.10. Candidates should not bring their books and/or notes to the examination hall. However, if books and/or notes have been brought along for last minute revision before the examination, they should put away at the far side or designated locations in the examination hall. In no circumstances will books and/or notes be allowed to be put in his or her desk or under the candidate's desk or chair.
- 6.1.11. Candidates are not allowed to bring their electronic pagers, mobile telephones, or any other electronic communication equipment into the examination hall. In case they have this electronic equipment with them, this equipment must be switched off and put away together with their books and/or notes at the far side or designated locations in the examination hall.
- 6.1.12. Beside the question paper and answer book provided, candidates must not put anything on the desks except pencils, pen or ballpoints, ruler, correction fluid or correction pen, and non-programmable calculator, if needed.
- 6.1.13. Candidates must put their PQE Entry Admission Forms together with their own Hong Kong Identify Cards on the top right hand corner of their desks for checking by the invigilator. No candidate is allowed to take part in the examination if he or she fails to produce these two identification documents.

- 6.1.14. Any candidate, if found using another person to stand-in for him/her in the examination, will be disqualified from all the examinations. The disguised candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for further action and record purposes.
- 6.1.15. Candidates are advised to concentrate in answering their own papers and not to look around at other candidates' scripts. A candidate caught peeping over the answered scripts of the neighbouring candidates would render his or her candidature to be disqualified. This candidate will be told to leave examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.
- 6.1.16. A candidate will be disqualified from the examination if he or she is found passing answer/information to another candidate or obtaining answer/information from another candidate, or found cheating by whatever means. This candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.
- 6.1.17. No candidate is allowed to talk, murmur or sing during the examination session. If such act is found, the candidate in contempt will be warned. If the candidate ignores the warning and continue to talk, murmur or sing in the examination, he or she shall be disqualified from the examination. This candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.

6.2. Candidates' Behaviour at Moment Prior to the Examination

- 6.2.1. Candidates are advised to arrive at the examination venue or examination hall in good time so as to avoid being late to the examination due to any unforeseen traffic congestion.
- 6.2.2. Candidates are required to bring with them the PQE Entry Admission Forms

and their own Hong Kong Identity Cards to the examination. These documents must be produced for the purpose of identity verification.

- 6.2.3. Candidates are advised to wait outside the examination venue or examination hall until they are called to enter the hall 10 minutes before the examination time. While they are waiting outside the examination hall, they should refrain from making loud noise or shouting in the waiting area.
- 6.2.4. Before entering into the examination hall, candidates are advised to check the seating plan being put up in front of the entrance of the examination hall.

7. Examination Result Announcement

Candidates will know about their examination results via one or more of the three different means, namely:

- a. Direct notification from the CILTHK
- b. Result announcement in the Institute's web site
- c. Other media

The date of the examination result announcement is around mid-August.

Candidates are not advised to call the CILTHK office inquiring about their examination results because there will not be any responsible staff available to comment about your examination results. CILTHK has taken every measure to maintain the setting and marking of the questions at high standard and with impartiality. If a candidate feels that his/her examination paper has been unfairly marked, he/she can launch an appeal.

8. Appeal

A candidate may appeal against the results of the examination of any subject if he/she has a good reason to believe that:

- a. there may be an error in the marking of his/her answer script, or
- b. there has been an irregularity in the conduct of an examination.

The appellant has to lodge an appeal within 21 calendar days after the announcement of the results.

The appellant has to pay HK\$800 per subject for the appeal. (The amount is subject to adjustments as approved by the Council.)

After receiving the written petition and the appropriate fee for the appeal, the Education and Training Committee will re-examine the answer script, focusing on the reason(s) being listed in the appeal.

If the appeal is found to be of valid grounds, the Education and Training Committee will re-adjust the marks and amend the results accordingly.

If the appeal is found with no valid grounds, the appellant will be notified by the Education and Training Committee accordingly. If the appellant is still not satisfied with the appeal results, he/she can make a second appeal by paying the appropriate fee. This second appeal shall be attended by the Appeal Panel formed from the Board of Examiner (BOE) to review the answer script again. The verdict of this Appeal Panel is final.

The Education and Training Committee will notify the appellant formally about the results of the appeal within one calendar month. The normal result of an appeal would either be (i) a re-adjusted mark or grade for the appellant's examination subject, or (ii) retaining the original marking score.

The payment for the appeal will not be refunded in any circumstances.

The application for appeal should be addressed to the Chairperson of the Education and Training Committee.

- End -

Appendix E Professional Qualifying Examination Entry Form



For Office Use Or	y) Ref. No.:
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Professional Qualifying Examination Entry Form 18th – 21st May 2026

APPLICATION SHALL NOT BE ACCEPTED UNLESS YOU ARE A MEMBER OF THE INSTITUTE. If you are not currently a member, please contact the CILTHK office.

Please complete all sections in BLOCK CAPITALS. All entries must be received by 31st January 2026. Any entry received after this date will not be accepted.

Personal Information									
Name		Surname Given	Membership No.						
Day Tim	e Contac	t	Mobile						
Email			Fax						
Correspondence Address									
□ Tha	ave previo	ously sat the Institute examinations	. , <	Year					
Entry for May-2026 examination - please put NN against the subjects for which you are entering in May-2026, PP against those for which you have previously passed and XX against those for which you have exemption(s).									
Subject Code (Current)	Subject Code (2007)	e							
OL1	OL1	Business Environment for Trans	port and Lo	ogistics					
OL2	OL2	Financial Management and Rep	orting for T	ransport a	nd Logist	ics			
OL3	OL3	Marketing and Service Manager	nent						
OL4	AL2	Management and Decision Maki	ng						
Subject Code (Current)	Subject Code (2007)	Advanced Level – Transport Management Stream	n	Subject Code (Current)	Subject Code (2007)	Advanced Le Logistics Mar	vel – nagement Stream	1	
AL1	AL1	Law of Business and Carriage		AL1	AL1	Law of Busine	ss and Carriage		
AL2	AL3	Transport Systems and Management		AL5	AL6	Global Supply Management	Chain		
AL3	AL4	Sustainable Transport		AL6	AL7	Logistics Mana	agement		
AL4	AL5	Transport Policy and Planning		AL7	AL8	Warehousing a Handling	and Materials		

Please attach copy(ies) of the exemption letter(s) together with this examination entry form. \Box Enclosed exemption references

7/F | Yue Hing Building | 103 Hennessy Road | Wanchai | Hong Kong t 2866 1018 | f 2866 6118 | e ao3@cilt.org.hk | w www.cilt.org.hk



Professional Qualifying Examination Entry Form 18th – 21st May 2026

Date: 18th – 21st May 2026 Venue: CILTHK Office

Address: 7/F., Yue Hing Building, 103 Hennessy Road, Wanchai, Hong Kong (MTR Wanchai Station Exit A2)

	PQE 2026 Examination Timetable							
Time/ Date	18 ^t	^h May 2026 (Mon)	19 th May 2026 (Tue)		Tue) 20 th May 2026 (Wed)		21 st May 2026 (Thu)	
9:30am – 12:30pm	OL1	Business Environment for Transport and Logistics	OL2	Financial Management and Reporting for Transport and Logistics	OL3	Marketing & Service Management	OL4	Management and Decision Making
2:30pm-	AL2	Transport Systems and Management	AL3	Sustainable Transport	AL4	Transport Policy and Planning	ALI1	Law of Business and
5:30pm	AL5	Global Supply Chain Management	AL6	Logistics Management	AL7	Warehousing and Materials Handling	1	Camage

Examination Fees

HK\$

Administration (Entry) Fee: \$300

Examination Fee: Number of Subjects applied: () x @ \$1,000

\$

Cheque No: Total \$

IMPORTANT:

- 1. If a candidate wants to withdraw, whatever the reason, Application and Examination Fees are not refundable.
- No other arrangements will be made if a candidate is unable to attend the Examination.
- Examination enrolment may not be processed if payment is not enclosed.
- Cheque payment should be made payable to "<u>The Chartered Institute of Logistics and Transport in Hong</u> Kong".

□ Pie	ease tick if receipt is required.
	ou have any particular needs; e.g. physical disabilities or related matters that may require special gement in the examination hall?
I declare th	at the information given is correct and that I have read and agree with the conditions of this form.
Signature:	Date:

For any queries, please contact: t: 2866-1018 | e: ao3@cilt.org.hk



Notice for the CILTHK Professional Qualifying Examination (PQE)

1. The Rules of the Examination

- a) Candidates can only be allowed to enter the examination hall from 10 minutes before to 30 minutes after the examination starting time. Any candidate who arrives later than this time will not be allowed to take part in the examination unless he or she has a genuinely good reason. Any loss in the examination time due to late arrival will not be compensated.
- b) No candidate is allowed to leave the examination hall within the first half hour of the examination. Any candidate who has finished answering the question paper may leave the examination hall any time but not within the first half hour or the last half hour of the examination.
- c) Any candidate must raise his or her hand if assistance is required, including requesting to have physical relief. He or she has to wait until an invigilator comes to find out what assistance is requested. Such assistance must be carried out under the supervision of an invigilator or with the permission from that invigilator.
- d) All candidates who are still present at the final half hour of the examination must wait in the examination hall until all answered scripts have been collected and tallied. They are allowed to leave when the Chief Invigilator tell them to do so. When candidates leave the examination hall, they should avoid making loud noise and causing nuisance to people nearby.
- e) In the examination, each question paper comprises of two sections, namely Part A and Part B, with four questions being set in each section. Candidates are asked to answer not more than two questions from each section, within a total permitted time of three hours.
- f) No programmable calculator is allowed to be used by any candidate in the examination. If a candidate is found to be using a programmable calculator, that calculator will be taken away from that candidate until the examination is over. It is the sole responsibility that all candidates comply with this rule.
- g) Any question calling for mathematical solutions must be answered clearly showing all steps of calculation. Any rough work on calculation(s), if done on any page(s) of the answer book, should be crossed out at the end of the examination time so as not to confuse with the answer(s).
- h) Candidates should use blue or black ball points or fountain pens to answer the questions. They should not use any ball points of red colour in any circumstances in the examination.
- i) Every candidate should complete the front page of the answer book as per instructions printed. Before the answer book is being collected at the end of the examination, the candidate must put all supplementary answer sheets, if used, in the answer book and has them tagged together.
- j) Candidates should not bring their books and/or notes to the examination hall. However, if books and/or notes have been brought along for last minute revision before the examination, they should put away at the far side or designated locations in the examination hall. In no circumstances will books and/or notes be allowed to be put in his or her desk or under the candidate's desk or chair.
- k) Candidates are not allowed to bring their electronic pagers, mobile telephones, or any other electronic communication equipment into the examination hall. In case they have this electronic equipment with them, this equipment must be switched off and put away together with their books and/or notes at the far side or designated locations in the examination hall.
- Besides the question paper and answer book provided, candidates must not put anything on the desks except pencils, pen or ballpoints, ruler, correction fluid or correction pen, and non-programmable calculator, if needed.
- m) Candidates must put their PQE Entry Admission Form together with their own Hong Kong Identify Cards on the top right hand corner of their desks for checking by the invigilator. No candidate is allowed to take part in the examination if he or she fails to produce these two identification documents.
- n) Any candidate, if found using another person to stand-in for him/her in the examination, will be disqualified from all the examinations. The disguised candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for further action and record purposes.



Notice for the CILTHK Professional Qualifying Examination (PQE)

- o) Candidates are advised to concentrate in answering their own papers and not to look around at other candidates' scripts. A candidate caught peeping over the answered scripts of the neighbouring candidates would render his or her candidature to be disqualified. This candidate will be told to leave examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.
- p) A candidate will be disqualified from the examination if he or she is found passing answer/information to another candidate or obtaining answer/information to another candidate, or found cheating by whatever means. This candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.
- q) No candidate is allowed to talk, murmur or sing during the examination session. If such act is found, the candidate in contempt will be warned. If the candidate ignores the warning and continues to talk, murmur or sing in the examination hall, he or she shall be disqualified from the examination. This candidate will be told to leave the examination hall and all question papers together with the answer book will be taken away. The incident will be reported to the Chairperson of the Education and Training Committee of CILTHK for action and record purposes.

2. Students' Behaviour at Moment Prior to the Examination

- a) Candidates are advised to arrive at the examination venue or examination hall in good time so as to avoid being late to the examination due to any unforeseen traffic congestion.
- b) Candidates are required to bring with them the PQE Entry Admission Form and their own Hong Kong Identity Cards to the examination. These documents must be produced for the purpose of identity verification
- c) Candidates are advised to wait outside the examination venue or examination hall until they are called to enter the hall 10 minutes before the examination time. While they are waiting outside the examination hall, they should refrain from making loud noise or shouting in the waiting area.
- d) Before entering into the examination hall, candidates are advised to check the seating plan being put up in front of the entrance of the examination hall.

3. Preparation for the Examination

- a) Sample question of each PQE paper are posted on the CILTHK website (http://www.cilt.org.hk/) at Download Area for member/candidate's reference.
- b) Details of syllabus and recommended reference readings of each paper are in the "Professional Qualifying Examination (PQE) Syllabus" handbook. Copy of it can be accessible/downloaded at the CILTHK website/ Download Area.

4. Examination Result Announcement

Candidates will know about their examination results via one of more of the following means, namely:

- a. Direct notification from the CILTHK
- b. Result announcement in the Institute's web site
- c. Other media

The date of the examination result announcement is around mid of August.

Candidates are not advised to call the CILTHK office inquiring about their examination results because there will not be any responsible staff available to comment about your examination results. CILTHK has taken every measure to maintain the setting and marking of the questions at high standard and with impartiality. If a candidate feels that his or her examination paper has been unfairly marked, he or she can launch an appeal.

Appendix F Professional Qualifying Examination Entry Admission Form



[DATE]

[CANDIDATE] [ADDRESS]

Dear [CANDIDATE],

Professional Qualifying Examination May 2026 Entry Admission Form

Thank you for your application. Here is/are the subject(s) that you have registered for the PQE May 2026. Please contact the CILTHK office at 2868-1018 on or before 8th May 2026 if there is any discrepancy of the details indicated below.

	Personal Information					
Name	Membership Number					
Exam. Centre	CILTHK Office, 7/F., Yue Hing Building, 103 Hennessy Road, Wanchai, Hong Kong (MTR Wanchai Station Exit A2)					
Examination Enrolled						
Code	Subject Title					

Note: This admission form is NOT valid without the Institute's official stamp and MUST be shown together with your personal I/D on the desk for verification at the start of an examination.

The Chartered Institute of Logistics & Transport in Hong Kong

The Chartered Institute of Logistics and Transport in Hong Kong 各港運輸施沈季會
(Incorporated in Hong Kong with limited liability by guarantee)
7/F Yue Hing Building | 103 Hennessy Road | Wanchai | Hong Kong
T (852) 2866 6386 | F (852) 2866 6118 | E info@clitorg.hk | W www.clit.org.hk

Appendix G Professional Qualifying Examination - Notification of Result



NOTIFICATION OF RESULT Professional Qualifying Examination May 2026

The performance of the candidate whose name appears below was as shown. It is **NOT** valid without the Institute's official signature and stamp.

Nam	е	Membership Number			Membership Number	
Ordin	ary Lev	/el			_	
OL1	Busir	ness Environment for Tra	nsport a	and	Logistics	
OL2	2 Financial Management and Reporting for Transport and Logistics					
OL3	Marketing and Service Management					
OL4	Management and Decision Making					
	nced Le	evel – anagement Stream			Advanced Level – Logistics Management Stream	
AL1	Law o	of Business and age	Ź		AL1 Law of Business and Carriage	
AL2		sport Systems and agement			AL5 Global Supply Chain Management	
AL3	Susta	ainable Transport			AL8 Logistics Management	
AL4	Trans Plans	sport Policy and ning			AL7 Warehousing and Materials Handling	

The code letters against individual papers indicate the following:

	Pass Grades		Fail Grades	Other Codes	
+P	Pass with Distinction	DO	Fail	PP	Previous Pass
AP	Well above pass level	EO	Poor	XX	Exemption
BP	Above pass level	FO	Very Poor	ABS	Absent
CP	Pass level	-	-	-	-

Official Stamp	

Chairman of Education & Training Committee

The Chartered Institute of Logistics and Transport in Hong Kong 令地運輸輸沈學會
(Incorporated in Hong Kong with limited liability by guarantee)
7/F Yue Hing Building | 103 Hennessy Road | Wanchai | Hong Kong
T (852) 2866 6386 | F (852) 2886 6118 | E info@olitorg.hk | W www.olitorg.hk

Appendix H Application Form for Individual-based Exemption

1. Application Procedure

- 1.1 All applicants who want to apply for Individual-based Exemption must be the members of CILTHK.
- 1.2 Appropriate payment, course outline, syllabus and copies of testimonials such as certificates and transcripts, must be submitted together with the completed application form
- 1.3 Applications will be considered by the PQE Sub-committee of the Education & Training Committee of CILTHK.
- 1.4 This application will be treated in strict confidence and the information provided will only be used for individual-based exemption evaluation purpose by the Institute.
- 1.5 Applicants will be informed of the results of their applications for exemptions within 6-18 weeks from the date of confirmation received by CILTHK.
- 1.6 Should there be any change or correction of personal particulars after submission of this application, please contact the Administration Office at (852) 2866-6336.
- 1.7 Individual-based Exemption Fee (non-refundable).

Fee Schedules (with effect from 1 st January 2013)	HK\$
Application Fee	200
Exemption Fee for Each Subject	500
Administration Fee for Appeal (per case)	800

1.8 Appropriate payment should be made by crossed cheque payable to 'CILTHK' and sent to Chairperson, Education & Training Committee

The Chartered Institute of Logistics & Transport in Hong Kong
7/F, Yue Hing Building, 103 Hennessy Road, Wanchai, Hong Kong

2. Conditions for Exemptions

- 2.1 Exemption may be given to an applicant by virtue of his/her previous studies and examination results.
- 2.2 Exemption will not be considered for any incomplete qualifications.
- 2.3 If 70% or above is identical in mapping the syllabus coverage exemption may be considered.
- 2.4 For external pass gained in courses of studies at the tertiary institutions, exemptions will be granted on subject to subject basis with examination results at Grade C / 60% Marks or above.
- 2.5 Qualifications from overseas institutions will be considered at individual merits
- 2.6 No exemption will be given to applicants whose qualifications are obtained by exemptions granted by local or overseas educational institutes.

3. Appeal Procedures

- 3.1 An applicant who is dissatisfied about the decisions of the PQE Sub-Committee may write to the E&T Committee stating clearly its reasons for appeal within 10 days from the date of notice of result. The E&T Committee shall look into the case again in view of the reasons given.
- 3.2 Fee will be charged to applicant and once paid it is non-refundable.
- 3.3 If the applicant is dissatisfied about the decisions of the E&T Committee, it may write to the Council stating clearly its reasons for appeal. An additional amount will be charged to applicants and once paid it is non-refundable.
- 3.4 The Council shall consider the case and inform the applicant about its decision within one month after it received the application.
- 3.5 The decision of the Council will be final.

	Education & Irauning Handbook of The Chartered Institute of Logistics and Transport in Hong Kong
Section A: PERSONAL PARTICULARS (p	please write in BLOCK letters)
Title: ☐ Mr. ☐ Mrs. ☐ Ms ☐ Miss	s □ Other:
Surname:	Other Names:
Name in Chinese (if any):	CILT Membership No.:
Correspondence Address:	
Telephone No.: (Office)	Office Fax No.: (Office)
(Residential)	(Residential)
Pager / Mobile:	E-Mail Address:
Section B: Programme Information	
PQE Paper(s) applied for Exemption(s)	Equivalent Past Academic Studies
Ordinary Level	
OL1 Business Environment for Transport and Logistics	Institute:
	Subject:
	Subject: Year:
OL2 Financial Management and Reporting for Transport and Logistics	

	•	
Ordinary Level		
OL1 Business Environment for Transport and Logistics	Institute:	
	Subject:	
		Year:
OL2 Financial Management and Reporting for Transport and Logistics	Institute:	
	Subject:	
		Year:
OL3 Marketing and Service Management	Institute:	
	Subject:	
		Year:
OL4 Management and Decision Making	Institute:	
	Subject:	
		Year:

PQE Paper(s) applied for Exemption(s)	Equivalent Past Academic Stud	dies
Advanced Level		
☐ AL1 Law of Business and Carriage	Institute:	
	Subject:	
	Grade/ Mark:	Year:
Transport Stream		
AL2 Transport Systems and Management	Institute:	
	Subject:	
	Grade/ Mark:	
AL3 Sustainable Transport	Institute:	
	Subject:	
	Grade/ Mark:	
AL4 Transport Policy and Planning	Institute:	
	Subject:	
	Grade/ Mark:	
Logistics Stream		
AL5 Global Supply Chain Management	Institute:	
G		
	Subject:	
	Grade/ Mark:	Year:
AL6 Logistics Management	Institute:	
	Subject:	
	Grade/ Mark:	
AL7 Warehousing and Materials Handling	Institute:	
	Subject:	
	Grade/ Mark:	Year:

Please use supplementary sheet if necessary.

Section C: Required Documents			
Please tick the appropriate box(es) and provide the respective attachment number(s), corresponding to the submitted documents that you will attach with the application form.			
		Attachment No.	For office use only
	Subject/course syllabuses		
	Subject/course outline		
	Transcript		
	Certificate(s) of Educational Attainmen	t	
	DECLARATION		
I declare that the information given above is correct and completed. I understand that if I wilfully give any false information in this application form or withhold any material information, it will render me liable to disqualification for exemption application or to cancel, even already granted by CILTHK.			
false infor	rmation in this application form or withhole	d any material information, it will rer	nder me liable to
false infor disqualific	rmation in this application form or withhole	d any material information, it will rer	nder me liable to
false infor disqualific Signatu	rmation in this application form or withhole cation for exemption application or to cand	d any material information, it will rer cel, even already granted by CILTH	nder me liable to
false infor disqualific Signatu	rmation in this application form or withhole cation for exemption application or to cand the cate of Applicant: e Use Only	d any material information, it will rer cel, even already granted by CILTH	nder me liable to
false infor disqualification disqualific	rmation in this application form or withhole cation for exemption application or to cand use of Applicant: e Use Only eived:	d any material information, it will rereal, even already granted by CILTH	nder me liable to

Appendix I Question Papers

- I.1 All drafts, manuscripts and proofs are to be sent by "RECORDED DELIVERY" to the PQE Sub-committee and marked on the envelope as "PRIVATE AND CONFIDENTIAL"/via encrypted email(s).
- I.2 Each proposed examination paper should have 10-15 questions, of which eight will be selected to form the formal examination paper. The Paper Setters should be aware that each formal examination paper is a three-hour paper.
- I.3 The E&T Committee expects an average "pass" student to be capable of completing of the question papers within the allotted time.
- I.4 The Paper Setters must devise their own original questions and suggested answers. The questions must be worded so as not to confuse the meaning, and the issues being asked in the questions.
- I.5 The question papers of all examination subjects of the CILTHK Professional Qualifying Examination will be offered to all registered candidates in Hong Kong, regardless of the candidates' nationality. The language used in the question papers and for the answers is English.
- I.6 When drafting questions, Paper Setters should be aware of the standards of the CILT professional qualifying examination and should sustain such standard by drawing up questions covering wide areas of the knowledge of the subject concerned. Such knowledge may include practical case studies for the commercial, industrial or public sectors.
- I.7 Questions focusing on any newly enacted legislation should not be set until at least six months from the date of such legislation's enactment. Questions asking detailed understanding and implication of any new legislation will only be set after such legislation has been implemented for one year.
- I.8 The maximum mark for each paper is 100 and the pass mark is 50. The Paper Setters should arrange their Marking Scheme so as to avoid a disproportionate weighting of marks for any one question.
- I.9 The Copyright for the published examination questions and model answers rests with CILTHK.

Appendix J Suggested Answers

- J.1 The aim of the suggested answers is:
- J.1.1 To assist the BOE in moderating the question paper and in deciding the form of the formal examination paper(s);
- J.1.2 To assist the Marker(s) in marking the answer scripts such that a uniform and equitable standard of marking is maintained;
- J.1.3 To provide a clear indication of the CILTHK's Professional Qualifying Examination standard to all lecturers and students of the transport and logistics courses, and other interested working professionals.
- J.2 The suggested answers should be as brief and clear as possible. They should include all issues that are required of a candidate to obtain a good "pass".
- J.3 The suggested answers should be submitted by the Paper Setters to the PQE Sub-committee, together with the proposed question paper(s) and the marking scheme. These suggested answers should be in a form suitable for inclusion in the Institute's publication "Question Papers and Suggested Solutions".

Appendix K Marking Scheme

- K.1 The marking scheme should include notes to cover different interpretations of the questions so as to ensure that a uniform and equitable standard of marking is maintained.
- K.2 The marks allocated to different issues of the question should be commensurate with the time required to answer those issues.
- K.3 The marks should be apportioned among the expected issues for each question such that the total marks given to these issues would add up to 25.
- K.4 A "pass" mark of 50 out of a 100 should be used for all question papers.

Appendix L Examination Syllabuses

Ordinary Level

[Candidates have to complete all four subjects]

- OL 1: Business Environment for Transport and Logistics
- OL 2: Financial Management and Reporting for Transport and Logistics
- OL 3: Marketing and Service Management
- OL 4: Management and Decision Making

Advanced Level

[Candidates have to complete all four subjects within the chosen stream]

Transport Management Stream

- AL 1: Law of Business and Carriage
- AL 2: Transport Systems and Management
- AL 3: Sustainable Transport
- AL 4: Transport Policy and Planning

Logistics Management Stream

- AL 1: Law of Business and Carriage
- AL 5: Global Supply Chain Management
- AL 6: Logistics Management
- AL 7: Warehousing and Materials Handling

How to use the syllabi

The syllabi for the subjects in the Professional Qualifying Examination are written in terms of "Synopsis", "Outline Subject Content", "Standard of Knowledge and Competence" and "Key Learning Areas".

Synopsis portrays the aims, basic coverage and the importance of the subjects. Candidates will need to have a general idea on the "whys" these modules are included in the examination and how they are related to the transport and logistics industry.

Outline Subject Content illustrates the main areas that would be examined. This aspect will help candidates to focus their studies correctly.

Standard of Knowledge and Competence indicates what a candidate is expected to know in each subject and what a candidate should be able to grasp, conduct and perform effectively when he / she obtains the corresponding knowledge.

The *Key Learning Points* and *Coverage* provide and suggest the basic knowledge elements that should be included in the examination. Moreover, they serve as the essential topics to be studied by the candidates. The knowledge and ability involved in the key learning points are to be interpreted in the context of transport and logistics, whenever possible.

<u>Taxonomy of Expected Learning Outcomes / Competencies stated in the CILTHK PQE Syllabus</u>

Mainly for Ordinary Level

Cognitive Category	Scope	Action Verb
<u>Knowledge</u>	Recall data / information / theories /	Define; Describe; Identify, Know; List
	concepts.	out; Name; Outline; Recognise, Select,
		State etc.
Comprehension	Understand the meaning, translation,	Comprehend; Convert; Define;
	interpolations and problems. State a	Discuss; Distinguish; Explain; Extend;
	problem in one's one words.	Generalise; Infer; Interpret, Portray;
		Predict, Relate; Rewrite; Summarise
		Understand; etc.
<u>Application</u>	Use a concept / theory / model in a	Apply; Calculate; Compute;
(Simple)	situation or prompted use of an	Construct; Decide; Demonstrate;
	abstraction. Applies what was learnt	Discover; Manipulate; Modify;
	into novel / conditioned situations in a	Predict, Prepare; Produce; Relate;
	hypothetic / simple case.	Solve; Use etc.

Mainly for Advanced Level

Mainly 101 /Mail		
Cognitive	Scope	Action Verb
Category		
<u>Application</u>	Use a concept / theory / model in a new	Apply; Calculate; Compute; Construct;
(Complex)	situation or unprompted use of an	Decide; Demonstrate; Discover;
	abstraction. Applies what was learnt into	Manipulate; Modify; Predict, Prepare;
	complex / unconditioned situations in a	Produce; Relate; Solve; Use etc.
	real / hypothetic and complex case.	
<u>Analysis</u>	Divide materials or concepts into	Analyse; Break down. Compare,
	component parts so that its	Contrast; Deconstruct; Develop;
	organisational structure may be	Differentiate, Discriminate; Discuss;
	understood. Distinguish between facts	Distinguish; Examine; Identify;
	and inferences.	Illustrate; Infer; Outline; Relate; Select;
		Separate etc.
<u>Synthesis</u>	Build a structure or pattern from diverse	Categorise; Combine: Compile;
	elements. Put parts together to and from	Compose; Create; Develop; Devise;
	a whole, with emphasis on creating a new	Design; Explain; Generate: Modify;
	meaning or structure.	Organise: Plan; Rearrange;
		Reconstruct; Relate; Reorganise;
		Review; Revise; Summarise etc.
<u>Evaluation</u>	Make judgments about the value of ideas	Appraise; Compare; Conclude;
	or materials.	Contrast; Criticise; Critique; Defend;
		Determine; Discriminate; Discuss;
		Evaluate; Examine; Interpret; Justify;
		Relate; Summarise; Support etc.

Adapted from Learning Domains or Bloom's Taxonomy: The Three Types of Learning [www.nwlink.com/~donclark/hrd/bloom.html]

Ordinary Level

OL 1: Business Environment for Transport and Logistics

Synopsis

This subject presents the fundamental knowledge required of a para-professional in the transport and logistics industry. It covers aspects of the principles, ideas and framework for understanding how transport / logistics interacts with global trade and society.

Outline Subject Content

- A. Overview of Transport, Logistics and Supply Chain
- B. Transport and Logistics Systems Elements and their Interrelationships
- C. Passenger Transport and Transport Planning
- D. Regulation and Control of Transport and Logistics System

Standard of Knowledge and Competence

A. Overview of Transport, Logistics and Supply Chain

The Candidate has to demonstrate the knowledge of:

- Overview of transport and logistics for organisations, communities and society
- Importance of transport and logistics in socio-economic development
- Stakeholders in transport and logistics, their varied concerns and values
- Economic principles of supply and demand on the transport and logistics industry
- Market structures of transport and logistics businesses
- Modal and intermodal characteristics and opportunities
- Concepts and theories on modal selection
- Government policies on the transport and logistics sector
- Concept of supply chain management
- Importance of supply chain strategies on production and consumption

The Candidate should be able to:

- Illustrate the impacts of transport and logistics in the context of socio-economic development
- Identify stakeholders' values, concerns and their behaviour in transport and logistics related issues
- Determine and analyse the market structure of the transport and logistics industry
- Compare and contrast different modes of transport and illustrate the pros and cons of different modes
- Select suitable modes of transport under various circumstances
- Explain the concepts of supply chain management and the emergence of the supply chain
- Illustrate the importance of setting up supply chain strategies

B. Transport and Logistics Systems – Elements and their Interrelationships

The Candidate has to demonstrate the knowledge of:

- The systems concept and its use in transport and logistics
- Various activities that comprise the elements in transport and logistics systems
- Concepts on lean/agile logistics and supply chain management
- Various internal and external factors that may affect the development of the industry

The Candidate should be able to:

- Use the system concept to identify the elements of transport and logistics operations and examine the interrelationships among the elements
- Apply total cost concepts to analyse transport and logistics problems
- Examine the impacts of various internal and external factors affecting the transport and logistics industry
- Understand the development of the concepts of lean logistics and supply chain management
- Understand the concepts of zero-inventory, modern distribution centre and cross-docking

C. Essentials of Urban Transport

The Candidate has to demonstrate the knowledge of:

- The supply and demand of urban transport
- The nature and planning of urban transport
- Regulation and de-regulation of the transport industry
- Current issues on urban transport

The Candidate should be able to:

- Explore the factors affecting the urban transport market
- Analyse the urban transport market with supply, demand and elasticity concepts
- Examine the nature and characteristics of urban transport
- Explain the terms mobility and accessibility
- Understand the nature and process of urban transport planning
- Illustrate the advantages and disadvantages of regulating and de-regulating urban transport
- Understand the environmental, social and safety issues on urban transport

D. Regulating and Control of a Transport and Logistics Systems

The Candidate has to demonstrate the knowledge of:

- Environmental impacts caused by the transport and logistics industry, sustainability and energy issues of transport and logistics
- Human resources and industry relations in the transport and logistics industry
- Key elements of national and international legislation
- Health and safety in the transport and logistics environment
- Security and risk management in the transport and logistics industry

The Candidate should be able to:

- Address the issues on environmental protection and the advocacy of sustainability
- Recognise the health and safety issues in the industry
- Examine the issues related to the labour market and manpower quality
- Understand the importance on enhancement of security measures and identification of risk factors
- Discuss contemporary issues in the industry in a holistic manner
- Discuss conventional transport and logistics issues, with alternative views

Key Knowledge Areas

A. Overview of Transport and Logistics		
Key Knowledge Areas	Coverage	
Relationship between transport	Functions of transport and logistics	
and logistics and socio-economic	Roles of transport and logistics in regional	
development	development and the growth of the economy	
	Transport and society	
	Transport and social welfare	
The transport and logistics	Nature of transport and logistics such as derived	
objectives, scope and products	demand	
	Modal characteristics and intermodal operations	
	Multimodal and intermodal operations	
	Supply and demand of transport and logistics	
	services	
	Scope and scale: international vs. national; urban	
	vs. rural; passenger vs. freight etc.	
Supply chain	The emerging supply chain concept	
	Concepts on supply chain management	
	Importance of supply chain strategies	
The institutional and market	Public finance and urban transport	
environment: privatisation,	Ownership and organisation of business	
economic deregulation and	Government intervention towards transport and	
competition	logistics	
	Market structure – monopoly, oligopoly,	
	monopolistic competition, contestable market	
	Alliance, merger and acquisition	

B. Elements of Transport and Logistics Systems

b. Elements of Transport and Englishes Systems	
Key Knowledge Areas	Coverage
Basic elements of transport and logistics	• Elements of transport such as: modes, inter-modality, multi-modalism, types of
	operations and services, unit of carriage, unit of propulsion etc.
	• Elements of logistics such as: order management, customer services, material handling and packaging, warehouse management, inventory
	control, distribution, and procurement

	 Interrelationship among basic elements of transport and logistics Modern distribution centre, cross-docking and zero inventory
System concept	 Application of system concept Identifying key elements and examine interrelationship among elements in transport and logistics issues
Total cost concept	 Various costs and cost structures of different transport modes Concept of cost trade-off and its applications Load factors Concepts of lean logistics and agile logistics
Improvement in technology	 Unit load concept and unit load devices Economies of scale on unit of carriage Advance in handling facilities and equipment Advanced in information and telecommunication technology

C. Essentials of Urban Transport

Key Knowledge Areas Coverage	
·	Coverage
Supply and demand of urban	Market mechanism
transport	• Factors affecting supply and demand of urban
	transport
	Factors affecting demand and supply elasticity
	Various market structure for various modes of
	urban transport
Urban transport planning	Mobility and accessibility
	Nature and characteristics of urban transport
	Role and processes of transport planning
Regulation and de-regulation	Form and bodies involved in regulating urban
	transport
	Advantages and disadvantages of regulation and
	de-regulation
	• Trends and forms of de-regulating urban transport
	Fiscal measures such as subsidies and taxes
Current issues on urban transport	Oversupply and congestion
	Green and sustainable transport
	Safety and security issues

D. Regulating and Control of Transport and Logistics System

Key Knowledge Areas	Coverage
Human resources management	 Contemporary human resources management theories Factors affecting supply and demand of labour in transport and logistics Labour supply and manpower quality issues Industrial relationship, unions and strikes

Green Transport and sustainability	Energy use and conservation, use of alternative fuel
	• Environmental considerations and green transport
	Reserve logistics and green logistics
	 Issues on sustainability
Legal control	 National legislation on transport and logistics
	 International treaties and legislation processes
	 Regulatory bodies / mandatory bodies
Managerial control	 Financial and accounting controls
	Worker productivity
	 In-sourcing and out-sourcing
	• Standard Operation Procedures (SOP), Key
	Performance Index (KPI) and benchmarking

Core Reading

Banister, D. (2011). Transport and Urban Development. Routledge, UK.

Christopher, M. (2023). Logistics and Supply Chain Management, 6th ed. Pearson.

Murphy, P.R. and Knemeyer, A. M. (2018). Contemporary Logistics. 12th ed. Pearson.

Victor, D. J. and Ponnuswamy, S. (2012). *Urban Transportation: Planning, Operation and Management*. McGraw Hill.

References

Button, K. (2022). *Transport Economics*. 4th ed. Edward Elgar.

Novack, R.A., Gibson, B.J., Suzuki, Y., and Coyle, J.J. (2019). *Transportation: A Global Supply Chain Perspective*, 9th ed. Cengage Learning.

Ordinary Level

OL 2: Financial Management & Reporting for Transport & Logistics

Synopsis

This subject is an introduction to financial accounting, cost and management accounting for candidates with limited or no prior knowledge of the subjects. It presents the fundamental knowledge required to understand and analyse financial statements. It also covers the aspects of the regulatory framework for financial reporting, cost accounting methods, techniques, budgeting process, as well as basic concepts of capital budgeting used for investment appraisal and evaluating financial performance.

The aims of this syllabus are to assess the student's ability to understand and / or to:

- 1. Explain the conceptual and regulatory framework of accounting, and general principles of accounting systems;
- 2. Explain the basic concepts and processes used to determine product and service costs;
- 3. Explain the various costing techniques and the role of budgets;
- 4. Apply the basic methods of capital budgeting on project evaluation and lease financing;
- 5. Apply and integrate the above concepts and techniques in simple reporting and financial planning in relation to a transport and logistics undertaking.

Outline Subject Content

A. Accounting Framework

- 1. Conceptual and regulatory framework
- 2. Objectives of financial reporting
- 3. Definition of revenue, expenses, assets and liabilities

B. Financial Statements and Reports

- 1. Key financial statements and their purposes
- 2. Analysis and interpretation of accounts

C. Cost Accounting Systems & Techniques

- 1. Different costing principles and techniques
- 2. Different costing systems and methods
- 3. Marginal costing and decision making
- 4. Activity-based-costing (ABC) approach

D. Budgeting

- 1. Budget theory and components
- 2. Budgeting process and preparation
- 3. Role of budget in business planning & control

E. Project Evaluation & Lease Financing

- 1. Basic methods of project evaluation
- 2. Cost-benefit analysis
- 3. Different sources of capital
- 4. Lease financing

F. Information Technology Applications

- 1. Business information system
- 2. Enterprise applications
- 3. Business/Artificial intelligence

Standard of Knowledge and Competence

A. Accounting Framework

1. Conceptual and regulatory framework

The Candidate has to demonstrate the knowledge of:

- The differences between financial and management accounting systems
- The fundamental accounting concepts, principles and bases
- The historical cost convention

The Candidate should be able to:

- Explain the function of financial and management accounting systems
- Identify and explain the fundamental accounting concepts, principles and bases
- Understand the impact of accounting standards on the preparation of accounting statements

2. Objective of financial reporting

The Candidate has to demonstrate the knowledge of:

- The different user groups and the objectives of financial statements
- The key functions of financial accounts and reporting

The Candidate should be able to:

- Identify different user groups who make use of accounting information
- Tell the different characteristics of accounting information required to meet users' objectives

3. Definition of revenue, expenses, assets and liabilities

The Candidate has to demonstrate the knowledge of:

• The definitions and nature of capital and revenue items, income, expenses and assets and liabilities

The Candidate should be able to:

- Explain the concepts of capital and revenue, income and expenses, and assets and liabilities
- Identify common items that appear on income statements and balance sheets

B. Financial Statements and Reports

1. Key financial statements and purposes

The Candidate has to demonstrate the knowledge of:

- The major kinds of financial statements of a firm
- The different functions and purposes of financial reports

The Candidate should be able to:

- Read and prepare simple financial statements
- Explain the financial performance reflected by a financial statement

2. Analysis and interpretation of accounts

The Candidate has to demonstrate the knowledge of:

- The common accounting ratios
- Limitation of ratio analysis
- Segment analysis: inter-firm and international comparisons

The Candidate should be able to

- Calculate and interpret simple accounting ratios
- Analyse financial statements and comment on performance
- Explain the limitations of accounting ratio analysis

C. Cost Accounting Systems and Techniques

1. Different costing principles and techniques

The Candidate has to demonstrate the knowledge of:

- The definitions of absorption and marginal costing
- The concepts of standard costing

The Candidate should be able to:

- Compare and contrast marginal and absorption costing principles in profit reporting
- Explain how standards are set in the logistics industry, and calculate operational variances

2. Different costing systems and methods

The Candidate has to demonstrate the knowledge of:

- The mechanics of each costing system and method: job, batch, process costing and cost allocation
- The application of costs for decision making

The Candidate should be able to:

- Compare and contrast job, batch and process costing
- Prepare and contrast cost statements for transport and logistics companies

3. Marginal costing and decision making

The Candidate has to demonstrate the knowledge of:

- What are fixed, variable and semi-variable costs
- The contribution concept and its applications

The Candidate should be able to:

- Identify cost behaviour and explain the contribution concept
- Calculate the breakeven point, margin of safety and profit / volume ratio
- Prepare cost-volume-profit analysis

4. Activity-based-costing (ABC) approach The Candidate has to demonstrate the knowledge of:

• ABC as a potential profit reporting system

The Candidate should be able to:

- Compare ABC with traditional costing methods
- Evaluate ABC as an alternative system of cost accounting

D. **Budgeting**

1. Budget theory and components

The Candidate has to demonstrate the knowledge of:

- The Budget theory
- Reasons for preparing budgets
- The various budget components

The Candidate should be able to:

- Identify different functional budgets
- Prepare a simple cash budget

2. Budgeting process and preparation

The Candidate has to demonstrate the knowledge of:

- The conventional budgeting process
- The different approaches in budget preparation

The Candidate should be able to:

- Evaluate and apply alternative approaches to budgeting
- Identify controllable and uncontrollable costs
- Prepare simple functional budgets

3. Role of budget in business planning & control

The Candidate has to demonstrate the knowledge of:

- Concepts of budget variances
- The use of budgets for control purposes
- Behavioural issues in budgeting

The Candidate should be able to:

- Describe and explain the potential purposes of budgets
- Prepare simple reports comparing actual and budgeted results

E. Project Evaluation & Lease Financing

1. Basic methods of project evaluation

The Candidate has to demonstrate the knowledge of:

- The basic concepts of capital budgeting
- The common methods of project evaluation

The Candidate should be able to:

- Calculate investment returns by using NPV / IRR
- Compare and contrast the different methods of capital budgeting

2. Cost-benefit analysis

The Candidate has to demonstrate the knowledge of:

- The basic concepts of cost-benefit analysis
- Relevant and irrelevant costs and benefits

The Candidate should be able to:

- Identify and analyse relevant project costs, benefits and risks
- Apply cost-benefit analysis to decision making

3. Different sources of capital

The Candidate has to demonstrate the knowledge of:

- Types of features of short and long term finance
- Equity / share capital and debt financing

The Candidate should be able to:

- Explain the features of different types of finance
- Identify the costs so involved

4. Lease financing

The Candidate has to demonstrate the knowledge of:

- Purposes of using lease financing
- Different forms of lease financing

The Candidate should be able to:

- Explain the different between operating lease, hire purchase, and finance lease
- Compare the advantages of different forms of lease in relation to financial planning

F. <u>Information Technology Application</u>

The Candidate has to demonstrate the knowledge of:

- Basic understanding of business information systems and enterprise applications
- The use of information technology to enhance financial management and reporting

The Candidate should be able to:

- Explain how business information systems and enterprise applications can enhance financial management and reporting
- Appreciate the latest development of information technologies such as new enterprise systems and business/artificial intelligence

Key Knowledge Areas

A. Accounting Framework

1. Conceptual and regulatory framework

1. Conceptual and regulatory framework	
Key Knowledge Areas	Coverage
Financial vs. management	Definition and nature of an accounting system
accounting systems	Different functions of each system
	Characteristics of information provided
Fundamental accounting	Definitions
concepts, principles and bases	The accounting equation
	Historic cost basis
Accounting standards	• International accounting standards (IAS)
	• Effect on production of financial statements
	• Other regulatory tools and recent developments in
	financial reporting

2. Objectives of financial reporting

Key Knowledge Areas	Coverage
Different user groups	Various stakeholders and their concerns
	Stewardship
Purposes of financial reporting	Profit measurement
	Assets valuation and liabilities measurement
	Concept of accountability

3. Definitions of revenue, expenses, assets and liabilities

Key Knowledge Areas	Coverage
Income and expense	Nature and types of revenue and expense
	Concept of capital and revenue items
Assets, liabilities, and equity	Nature and types of equity, assets and liabilities
	Accruals and prepayments

B. Financial Statements and Reports

1. Key financial statements and purposes

1: They intunctual statements and put poses	
Key Knowledge Areas	Coverage
Key financial statements	Income statement
	Balance sheet
	Cash flow statement
Purposes and information	Performance measurement
provided	Assets versus liabilities

•	Concept of net worth
•	Liquidity versus profitability

2. Analysis and interpretation of accounts

Key Knowledge Areas	Coverage	
Accounting ratios	• Definitions	
	 Types of ratios for financial analysis 	
	How to calculate and interpret ratios	
Limitations of ratio analysis	 Comparability of industries 	
	 Variation under different accounting policies 	
Segment analysis	Application of ratios for inter-firm and	
	international comparisons	
	Benchmarking	

C. Cost Accounting Systems & Techniques

1. Different costing principles and techniques

Key Knowledge Areas	Coverage	
Absorption vs. marginal costing	Definitions and concepts	
	 Compare and contrast the two systems 	
	• Application under different costing environments	
Standard costing	Definitions and concepts	
	 How to set standards 	
	 Calculation of variances 	
	 Behavioural aspects of setting standards costs 	

2. Different costing systems and methods

Key Knowledge Areas	Coverage	
Basic concepts used to determine	Common costing systems and methods	
product or service costs	Compare and contrast job, batch, contract and	
	process costing systems	
Functions of costing systems	Reasons for using costing systems	
	Functions of cost statements for service	
	organisations	

3. Marginal costing and decision making

Key Knowledge Areas	Coverage	
Fundamental concepts for marginal costing	Relevant costs and sunk costsFixed, variable and semi-variable costs	
	Contribution concept	
What is C-V-P analysis	 Definitions of break-even point and margin of safety 	
	 How to prepare cost-volume-profit analysis 	
	• Application of C-V-P in decision making	

4. Activity-based-costing (ABC) approach

Key Knowledge Areas	Coverage	
What is the ABC approach	Basic concepts	

•	•	Application of ABC as a system of profit reporting
		and performance measurement
•	•	ABC compared with traditional costing methods

D. Budgeting

1. Budget theory and components

Key Knowledge Areas	Coverage
Budget theory	Definition of budget
	 Reasons for preparing budgets
	 Information technology and budgeting
Budget components	Functional budgets
	Master budgets
	Budget profit & loss account, balance sheet
	 Cash budgets

2. Budget process and preparation

Key Knowledge Areas	Coverage
Budget process	Methods on and the process of preparing a traditional budget
	 Recent developments in budgeting processes
Approaches in budgeting	Creation of budgets under incremental approaches, zero-based budgeting, and activity-based budgets
	 Pros and cons of different approaches

3. Role of budget in business planning & control

	1 8
Key Knowledge Areas	Coverage
Role of budget in business	As a tool for planning and control
	Other possible purposes of budget like motivation
	and communication
Behavioural issues and	Impact of budgetary control systems on human
non-financial indicators	behaviour
	Role of non-financial performance indicators
Budget variances	Reporting of actual performance against budget
	Variance analysis / responsibility accounting

E. Project Evaluation & Lease Financing

1. Basic methods of project evaluation

Key Knowledge Areas	Coverage	
Fundamentals of capital budgeting	 Common methods used to evaluate project profitability Net present value (NPV), internal rate of return (IRR), payback period, average rate of return Computation of investment return under each method 	

NPV method vs. IRR method	•	Compare and contrast differences between the two
	•	commonly used approaches Selection of the appropriate method

2. Cost-benefit analysis (CBA)

Key Knowledge Areas	Coverage
Basic concepts of relevant costs and benefits	 Identification of a project's relevant costs and benefits Relevant vs. irrelevant costs and benefits Financial and non-financial risks
Application of CBA in decision making	 Analysis on relevant costs and benefits of an investment project Limitation of CBA in project evaluation

3. Different sources of capital

Key Knowledge Areas	Coverage	
Different sources of capital	Long term and short term sources of capital	
	Equity versus debt financing	
	Costs of capital involved	
	Other factors than costs	

4. Lease financing

Key learning points	Coverage	
Types and features of lease financing	• Concept of lease financing, operating lease and finance lease	
	Compare and contrast different forms of leases in financial planning in a transport / logistics undertaking	
	Effects of taxation	

F. Information Technology Application

r. Information reciniology A	Application	
Key Knowledge Areas	Coverage	
Business information systems	Business features	
	System functionality and performance	
	• Collaboration	
	• Roles	
Enterprise applications	Enterprise Systems	
Business/Artificial intelligence	Business intelligence	
	Artificial intelligence	
	Knowledge management	

Core Reading

Horngren, C.T., Datar, S.M. and Rajan, M.V. (2011). *Cost Accounting: A Managerial Emphasis*, 14th ed. Prentice Hall, US.

Williams, J., Haka, S., Bettner, M. and Carcello, J. (2011). Financial Accounting. McGraw-Hill, US.

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Laudon, K.C. and Laudon, J.P. (2014). *Essentials of Managing Information Systems*, 11th ed. Prentice Hall, US.

Ross, S. Westerfield, R., Jordan, B. (2012). Fundamentals of Corporate Finance, $10^{\rm th}$ ed. McGraw-Hill, US.

Ordinary Level

OL 3: Marketing and Service Management

Synopsis

Markets are increasing characterised by demanding customers and consumers. A paradigm shift has changed the market from producer-led to consumer-driven. Firms can no longer rely on the classic 4Ps of product, price, promotion and place to support its market-leadership. To survive and preferably grow, winning firms must satisfy customers' need on product innovation and service assurance, as well as those who can maintain intimate relationships with, and deliver long-term value to, the customers.

The subject provides the underlying knowledge for marketing and service management in both theoretical and practical contexts. It addresses the uniqueness of the transport and logistics field in carrying out marketing activities and service management practices. The basic concepts, ideas and theories on marketing policy, market research, service quality and customer services form the substantial body of the subject. Moreover, social and ethical issues are also discussed. Various approaches to extend the concepts to international transport and logistics services are included.

Outline Subject Content

- A. Understand Services and Marketing
- B. Marketing Environment and Marketing Policy
- C. Market Characteristics and Market Research
- D. Service Management and Service Quality
- E. Social and Ethical Issues in Marketing
- F. Developing Customer Relations and Customer Satisfaction Measurement

Standard of Knowledge and Competence

A. Understand Services and Marketing

The Candidate has to demonstrate the knowledge of:

- The basic concepts of services, customer services and derived services
- The differences between physical products and services
- Various characteristics and attributes of services
- The importance of quality and reliability in transport and logistics services
- Concepts of marketing mix and service marketing mix
- Various marketing techniques
- Use and limitations of marketing in not-for-profit logistics and transport activities

The Candidate should be able to:

- Use basic concepts of services and marketing to analyse the services provided in the transport and logistics sector
- Distinguish between physical products and services
- Illustrate the importance of quality and reliability through transport and logistics services
- Examine marketing mix concepts through case studies
- Apply service marketing mix concepts to analyse cases
- Understand the limitations and uses of marketing in not-for-profit logistics and transport activities

B. Marketing Environment and Marketing Policy

The Candidate has to demonstrate the knowledge of:

- The nature of activities of transport and logistics
- Various kinds of market policies, features and advantages
- How marketing policy helps to gain and lose competitive advantages
- Segmentation and positioning strategy
- Factors affecting marketing decisions
- How the marketing environment will structure competitiveness
- Issues on communication and manpower development

The Candidate should be able to:

- Illustrate the distinctive nature of transport and logistics activities in marketing
- Examine how marketing policy would affect the positioning of the services
- Evaluate what factors are involved and how these factors affect the marketing decisions
- Examine the degree of competitiveness in the marketing environment
- Discuss other issues in marketing such as market communication, manpower and organisational issues

C. Market Characteristics and Market Research

The Candidate has to demonstrate the knowledge of:

- Various types of topologies on market characteristics
- Various market research techniques, their usages and advantages
- Methods to collect market information and intelligence
- How information systems help the marketing operations

- Identify different market types and illustrate their characteristics
- Suggest suitable market research techniques and design market research plans
- Choose appropriate methods or approaches to obtain market intelligence
- Illustrate the importance of information systems in marketing
- Identify the benefits of using information systems in service marketing

D. Service Management and Service Quality

The Candidate has to demonstrate the knowledge of:

- Components in a quality management system
- Processes, tools and techniques for quality management
- Cost and benefits of a quality management system
- The relationships between customer experience, customer satisfaction and service quality
- Reasons for service failure
- The concepts of recovery strategies and quality assurance programmes
- How to design a quality assurance programme
- Organisational issues in service management
- Relationship between marketing and operations
- Roles and elements of services portfolios
- Functions and the importance of customer participation
- Various issues on manpower, training, motivation and human issues in service marketing
- Working conditions and the stressfulness of frontline staff
- Techniques and considerations for hiring suitable persons for service marketing or customer services

The Candidate should be able to:

- Study a quality management system and suggest appropriate tools and techniques required
- Illustrate the costs of quality in the transport and logistics industry
- Relate customer experience, customer satisfaction and service quality
- Illustrate the factors of service failures and the impacts on customer satisfaction
- Identify the needs for setting recovery strategies
- Illustrate the elements and design of a suitable quality assurance programme
- Discuss issues on the organisation of a service management system
- Discuss the relationship between marketing and operations
- Illustrate the functions of and elements in a service portfolio and understand the considerations in developing it
- Illustrate the importance of customer participation
- Discuss various manpower planning issues for customer services and service management

E. Social and Ethical Issues in Marketing

The Candidate has to demonstrate the knowledge of:

- Emerging social issues on marketing the transport and logistics industry
- Environmental protection as a marketing tool
- Concepts and processes on building trust between the buyer and seller
- Factors affecting the degree of customer loyalty
- Impacts on the business environment and society by service marketing
- Social and political issues on the transport and logistics sector
- Marketing and issues of the globalised market

The Candidate should be able to:

- Discuss various social considerations as marketing issues
- Discuss the political impacts or issues on marketing transport and logistics services
- Discuss the environmental issues as considerations in marketing
- Identify the importance of relationship marketing
- Illustrate the process of building up buyer-seller relationships
- Recognise social responsibility and political acceptability as marketing considerations
- Identify marketing as barrier to entry in the transport and logistics sector
- Discuss the issues on the emerging global market

F. <u>Developing Customer Relations and Customer Satisfaction Measurement</u>

The Candidate has to demonstrate the knowledge of:

- The importance of customer loyalty
- Concepts, processes and elements of customer service management
- Concept on, elements of and factors affecting customer expectations
- Concepts on service recovery systems and various types of effective service recovery systems
- Various proactive actions that are useful in enhancing customer services
- Elements of a customer feedback mechanism and factors affecting the effectiveness of this mechanism
- Concepts on solicited and unsolicited customer feedback
- How to measure customer satisfaction

The Candidate should be able to:

- Discuss the importance of customer loyalty and the factors affecting it
- Discuss various issues in customer service management
- Evaluate the effectiveness of various service recovery systems
- Illustrate the uses, benefits and effectiveness of proactive actions
- Discuss the effectiveness of customer feedback mechanisms
- Distinguish between solicited and unsolicited customer feedback
- Discuss the various issues in measuring customer satisfaction

Key Knowledge Areas

A. Understand Service and Marketing

Key Knowledge Areas	Coverage	
Concepts and distinctive aspects	Services industries	
of services	Services as products	
	Customer services	
	Derived services	
Differences between goods and	Characteristics of services	
services	Intangibility	
	Inseparability	
	Perishability	
	Variability	

	Quality and reliability
Marketing	Marketing Mix
	Service marketing mix
	Application of service marketing mix in
	transport and logistics
	Market orientation
	 Marketing techniques
	 Marketing of not-for-profit activities

B. Marketing Environment and Marketing Policy

Key Knowledge Areas	Coverage		
Product nature and transport and	Time-based competition		
logistics activities	➤ Time to market		
	> Time to serve		
	> Time to react		
	Strategies for lead-time reduction		
	Value-added time and non-value-added time		
Marketing policy	 Market policies and measuring their 		
	successfulness		
	Gain and loss of competitive advantage		
	Steps to develop a positioning strategy		
Factors affecting marketing	Political		
decisions in transport and	• Economic		
logistics	• Social		
	Technological		
	• Legal		
Marketing environment	Regulation and de-regulation		
	Contestability		
	Changing competition		
Other issues on marketing	Market communication		
environment	People issues		
	Organisational arrangement		

C. Market Characteristics and Market Research

C: Market Characteristics and	iu Market Research	
Key Knowledge Areas	Coverage	
Market characteristics	Market segmentation and differentiation	
	Core and augmented products	
	Geographical factors	
Market research techniques	Quantitative vs. qualitative	
	Multidimensional scales	
	Interviews and questionnaires	
	Meetings, panels and focus groups	
Collection of market intelligence	Complaint Solicitation	
	Critical incidents studies	
	Post transaction survey	
	Service expectation	
	Mystery customers	

	Lost Customer Research
Application of information	On-line marketing
systems	Concept and objectives
	Development
	Limitations
	Marketing information systems
	• Use of internet, websites, portals, social media and mobile applications
	 Big data, marketing analytics and artificial intelligence

D. Service Management and Service Quality

Key Knowledge Areas	Coverage
Quality management	Quality management system
	 Tools and techniques
	 Costs of quality
Service quality	Customer experience
	 Service quality and customer satisfaction
	 Service failure and recovery strategies
	 Design quality assurance programmes
Service management	Organisational issues
	 Relationship between marketing and operations
	 Developing a portfolio of services
	 Enhancing customer participation
Manpower management	 Difficult and stressful frontline activities
	 Cycle of failure, mediocrity and success
	 Service leadership and culture
	Hire the right people
	Behaviour observation
	Personality tests
	Multiple, structured interviews
	Job Preview
	 Training, involvement and teamwork
	 Motivate and energise people

E. Social and Ethical Issues in Marketing

Key Knowledge Areas	Coverage
Social needs and effective	Long service contract
demand	Stability and reliability
	Disadvantaged people
	Green image
	Social responsibility
	Political enhancement
	Marketing as a barrier to entry
Trust between buyer and seller	Needs for relationship marketing
	Buyer-seller relationships
Globalised logistics marketing	 Integrated services marketing in logistics
management	

•	Offshore sourcing and manufacturing
•	Global logistics strategy and synergy

F. Developing Customer Relations and Customer Satisfaction Measurement

Key Knowledge Areas	Coverage
Build up customer relationships	Customer loyalty and its importance
and develop customer loyalty	Customer service management
	Customer complaint behaviour
	Customer expectations
	Effective service recovery systems
	Identify service complaints
	Resolve service complaints
	Learning from experience
Proactive action	Proactive attitudes
	Planned procedures
	Trained skills
	Empowered Employees
Customer feedback mechanism	Service Guarantees
	Compensation to customers
	Solicited and unsolicited customer feedback
	Analysis, reporting and dissemination
Measure of customer satisfaction	Customer perceptions
	Identification of key service aspects
	Techniques: Surveys, focus groups, interviews
	Quantitative vs. qualitative methods
	• Use of the results

Core Reading

Armstrong, G., Kotler, P., and Opresnik, M.O. (2020). *Marketing: An Introduction*, 14th ed. Pearson.

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Kerin R., Steven H. and Rudelius W. (2014). Marketing, 12th ed. McGraw-Hill, New York.

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Ordinary Level

OL 4: Management and Decision Making

Synopsis

This subject presents knowledge of the key generic aspects of management that are involved in transport and logistics practices and provides a basis for professionals in the various sectors to understand the basic concepts of management in order to comprehend the various theoretical aspects of management; to understand the knowledge and skills required to carry out the role of a manager efficiently and effectively.

Outline Subject Content

- A. Basic Concepts on Management
- B. Developing Organisation Strategies
- C. Planning and Decisions Making
- D. Measuring Performance and Innovation
- E. Project Management and Negotiations
- F. Leadership, Management and Development of People
- G. Productivity, Quality and Operations Management
- H. Managing Information System
- I. Business Ethics, Corporate Social Responsibility / Environment Social and Governance

Standard of Knowledge and Competence

A. Basic Concepts and Theories on Management

The Candidate has to demonstrate the knowledge of:

- The nature, principles and scope of management
- Various management theories and their contributions to effective management
- The elements of the management process

The Candidate should be able to:

- Identify and explain the basic management functions and processes of management in organisations
- Examine the roles of manager in transport and logistics organisations
- Describe contemporary approaches to and various perspectives on management

B. Developing Organisation Strategies

The Candidate has to demonstrate the knowledge of:

- Components, levels and formulation of management strategies
- Concepts of strategic management

- Frameworks and processes on formulating strategy
- Implementation of organisation strategies

The Candidate should be able to:

- Identify and discuss the major functional strategies within the context of the transport and logistics industry
- Compare the differences between strategic, tactical and operational plans
- Examine the essential elements and steps in formulating strategies
- Describe the steps and identify the difficulties in the implementation of organisation strategies

C. Organisation Planning and Decision Making

The Candidate has to demonstrate the knowledge of:

- The management hierarchy
- Mission, goals, objectives, strategies and policies
- Nature of decisions and the organisational hierarchy
- Information needs of decision makers
- Common decisions in the logistics and transport trades
- Common planning and decision making tools: optimisation and scheduling

The Candidate should be able to:

- Use organisation charts to understand and represent the hierarchical relationships in an organisation
- Describe the relationships between mission and the hierarchy faced by managers in different positions of the organisation
- Identify the information needs of people in different positions in an organisation
- Describe the nature and characteristics of common decisions in the logistics and transport trades
- Describe some commonly used tools for handling optimisation and scheduling problems

D. Measuring Performance and Innovation

The Candidate has to demonstrate the knowledge of:

- Productivity measurement and management
- Determination of standard operation procedures and service level agreements
- Key performance indicators and their usage
- The benchmarking process and technique
- Managing Innovation

- Identify and evaluate measures of productivity in transport and logistics activities
- Suggest and construct suitable key performance indicators
- Explain the usage of standard operation procedures and the importance of setting service level agreements
- Examine the practices of benchmarking in the transport and logistics industry
- Recognise the importance of innovation in the transport and logistics industry

E. Project Management and Negotiation

The Candidate has to demonstrate the knowledge of:

- Concepts of project management
- Project management and quality control
- Tools for project management
- Functions of, processes of, and techniques of negotiation
- Negotiation strategies: conflict resolution and communication

The Candidate should be able to:

- Examine the usage of project management within the context of transport and logistics management
- Suggest suitable tools and methods for project management
- Explain the functions and processes of negotiation
- Formulate negotiation strategies

F. Leadership, Motivation and Development of People

The Candidate has to demonstrate the knowledge of:

- Leadership styles and traits
- Correlation between needs and motivation
- Various theories on motivation
- Types of groups and teamwork
- Interpersonal and groups conflicts

The Candidate should be able to:

- Discuss the essential traits of a leader
- Use different theories on leadership to illustrate its importance on the success of transport and logistics firms
- Recognise the use of monetary and non-monetary motivation in the transport and logistics industry
- Use different motivation concepts to explain the behaviour of employees
- Discuss the ways that groups may be developed as effective teams
- Identify techniques for managing work teams in the transport and logistics business

G. Productivity, Quality and Operations Management

The Candidate has to demonstrate the knowledge of:

- The nature of value, productivity and quality
- Measuring productivity and quality
- The resource transformation process
- Operations planning and control
- Factors affecting productivity and quality
- The basic tools for improving productivity and quality
- Total quality management
- Business process reengineering
- Concepts of the value chain and supply chain
- Managing the global supply chain

The Candidate should be able to:

- Describe the relationship between customer value, productivity and quality
- Describe and apply the tools for measuring productivity and quality
- Describe the elements of the transformation process and describe the operations of an organisation as a resource transformation process
- Describe the elements and steps in operations planning and control
- Identify and describe the factors affecting the productivity of an organisation and the quality of its products or services
- Explain the nature of basic tools for the improvement of productivity and quality
- Describe the underlying assumptions, key elements and processes, advantages and limitations of total quality management, business process reengineering, and supply chain management

H. Managing Information Systems

The Candidate has to demonstrate the knowledge of:

- Types, flow and users of information in transport and logistics
- Needs and importance of information
- Strategic roles of information systems
- Computer hardware and software typologies
- Different concepts and tools for data management
- Different types of information systems
- Trend of network development
- Concepts and processes of data security management
- Methods and tools that are used in securing data, and computer and network security

The Candidate should be able to:

- Illustrate the information flow in logistics and transport operations
- Identify the needs and importance of using IT to facilitate information flow
- Understand the strategic role of information systems
- Comprehend the functions of different components of information systems
- Evaluate the suitability of various hardware and software to be used
- Compare the advantages and disadvantages of data storage methods
- Explain the use of database structures and processes of data management
- Describe the features and functions of different information systems
- Illustrate which aspects of information systems can help in transport and logistics operations
- Review the potential risks of accessing the Internet and the importance of security
- Identify various types of access control and data security tools

I. Business ethics and corporate social responsibility

The Candidate has to demonstrate the knowledge of:

- Concepts of managerial ethics
- Arguments for and against business social responsibility
- Various aspects and means for developing corporate social responsibility
- Application of CSR / ESG in the transport and logistics industry

The Candidate should be able to:

- Demonstrate the awareness in business ethics including but not limited to application of AI-related tools in the context of transport and logistics
- Discuss the challenges on managing social responsibility
- Discuss the processes and considerations in formulating a corporate social responsibility plan
- Examine the relationship between government and transport and logistics organisations regarding social responsibility
- Understand the importance and latest development ESG related framework

Key Knowledge Areas

A. Basic Concepts and Theories on Management

Key Knowledge Areas	Coverage
Nature, principles and scope of	Characteristics of organisations
management	Different organisational levels
	Role of managers, such as Mintzberg's managerial
	roles
	Internal and external environment
	Management in the global environment
Management functions and	• Elements of the management process: planning,
process	organising, leading and controlling
	Managerial roles and managerial skills
	Scope of management
Management theories	Classical management theories
	Rational and behavioural aspects
	Various approaches: human resources approach,
	quantitative approach and contingency approach
Roles of managers	Levels of management and areas of management
	Critical roles and skills of being a manager
Management in transport and	Rational planning and operations management
logistics	Quantitative vs. qualitative approaches
	Public administration and business management
	Roles for public image, innovation and social responsibility

B. Developing Organisation Strategies

Key Knowledge Areas	Coverage	
Strategy formulation	 Setting of strategic goals Strategy analysis tools such as: SWOT, Porter's competitive strategies, five forces model, product life cycle analysis 	
	 Cascading of objectives 	
Strategic management process	 Operational, tactical and strategic plans Formulation and implementation Vertical integration, alliance, diversification and expansion 	

	Review of strategies
Functional strategies	Marketing, financial, production, human
	resources, research and development
	• Examples of functional strategies in the transport
	and logistics industry
Implementation	• Approaches on implementation: through structure,
	leadership, technology and human resources
	• Performance and implementation
	• Strategic implementation in transport and logistics
	firms

C. Organisation Planning and Decision Making

C. Organisation Franking and Decision Waking	
Key Knowledge Areas	Coverage
Organisation goals	The managerial hierarchy
	Mission, goals, objectives, strategies and policies
	Hierarchy of goals
Planning and the organisational	Nature of decisions and the organisational
hierarchy	hierarchy
	Planning at the divisional and functional levels
Information and planning	Information needs of decision makers
	•
Planning and decision making	Common decisions in the logistics and transport
techniques in the logistics and	trades
transport trades	Common planning and decision making tools:
	optimisation and scheduling

D. Measuring Performance and Innovation

Key Knowledge Areas	Coverage
Managing productivity and quality	 Meaning of productivity, its importance and trends Productivity-quality connections
Performance measures	 Setting up of standard operation procedures Determination of key performance indices Establishment of service level agreements
Benchmarking	 Concept and purposes of benchmarking The benchmarking process Benchmarking in the transport and logistics industry
Innovation	 Quantum vs. incremental product innovations Strategies to promote innovation

E. Project Management and Negotiation

Key Knowledge Areas	Coverage
Project Management	Concepts of project management
	Role of project management
	 Project management as quality control

Elements and tools of project	Mission, vision, goals and objectives
management	 Budgeting, work flow, schedule, milestones, control and evaluation
	• Tools: arrow diagram, Gantt chart, critical path analysis, risk matrix etc.
Conflicts and negotiation	 Types of sources of conflicts
	 Distributive negotiation and Integrative
	Bargaining
	 Negotiation strategy, games theory
	 Process of formulating negotiation strategy
	 Negotiation in transport and logistics issues

F. Leadership, Motivation and Development of People

Key Knowledge Areas	Coverage
Leadership and its styles	Leader vs. non-leaders
	Traits of a leader
	Main leadership styles
	Classical and contemporary views on leadership
Motivation theories and their	Correction between needs and motivation
applications	 Motivation theories: Maslow, McGregor,
	Herzberg, expectancy, equity and goal-setting
	theory etc.
	 Pay and motivation and uses of monetary and
	non-monetary motivators
Individual and group behaviour	 Different aspects of organisational behaviour
	• Components of attitude, personality, perception and learning
	Group dynamics: groups in organisations and group conformity
	Political behaviour in organisations
Managing work teams	Stages of group and team development
	 Techniques on managing work teams
	 Interpersonal and group conflicts
	Conflict resolution
	Multicultural environments

G. Productivity, Quality and Operations Management

Key Knowledge Areas	Coverage
Productivity and quality	The nature of value, productivity and quality
	Measuring productivity and quality
Operations management system	Resource transformation process
	Operations planning and control
Improving productivity and	Factors affecting productivity and quality
quality	Basic tools: operations research, value
	engineering, work simplification, statistical
	control and quality circles
	Total quality management
	ISO framework, continuous improvement and

		business process reengineering
Supply chain management	•	Concepts of the value chain and supply chain
	•	Managing the global supply chain

H. Managing Information Systems

H. Managing Information Systems			
Key Knowledge Areas	Coverage		
Information and communication	 Types of information Pre-transaction, transaction and post-transaction Pre-trip or en route Information users Shipper; carrier; receiver etc. 		
	 Passengers; drivers, the public Information flows 		
Information Systems	 System concept Input, processing, output Feedback and control Types of information systems Operations support systems Management support systems Knowledge management systems Functional business systems People resources and institutional arrangements 		
Information Technology	Data managementArtificial Intelligence		
Strategic role of information technology	 Strategic advantage Cost Reduction Differentiation Innovation Promote growth Formation of alliances Support management decision-making processes 		
Security management of information technology	 System vulnerability Types of risk in e-Business Risk assessment and reduction System Auditing Various types of security control 		
Managing data resources	Data storageData structureData management		
Networks	 Wide area and local area networks Interconnected networks – Internet, Intranet and Extranet Client / server and inter-organisational network Telecommunication and wireless systems Development trends in network technology 		
Changing roles of information systems	Data processingManagement reporting		

	Decision support
	Strategic information
	Electronic business and commerce
Information system and logistics	Web-based platforms as communication devices
	Documentation transfer
	Extend connectivity with trading partners
	Enhance customer services
	Logistics management systems
	E-government and logistics practices

I. Business Ethics and Corporate Social Responsibility

Key Knowledge Areas	Coverage
Stakeholders and ethics	Nature of ethics
	• Ethics and law
	Stakeholder model of responsibility
Business ethics and social	Business and managerial ethics
responsibility	Social consciousness
	Societal ethics; occupational ethics, individual
	ethics and organisational ethics
Corporate social responsibility	• Importance of CSR / ESG initiatives
(CSR) / Environmental, Social	 Various aspects of application of CSR / ESG
and Governance	 Approaches to social responsibility
	 Organisation culture and social responsibility

Core Reading

David, F.R. (2023). Strategic Management: A Competitive Advantage Approach, Concepts and Cases, 17th ed. Pearson, US.

Robbins, S.P., De Cenzo, D.A. and Coulter, M. (2020). Fundamentals of Management: Essential Concepts and Applications, 11th ed. Pearson, US.

Griffin, R.W. (2022). Management, 13th Ed. Cengage Learning, US.

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Johnson, G., Scholes, K. and Whittington, R. (2015). Fundamentals of Strategy, Pearson, US.

Laudon, K.C. and Laudon, J.P. (2023). Essentials of Managing Information Systems, 15th ed. Prentice Hall, US.

Sunil Luthra, Dixit Garg, Ashish Agarwal, Sachin K. Mangla (2020), *Total Quality Management (TQM) - Principles, Methods, and Applications*, CRC Press, US

Advanced Level

Transport Management Stream / Logistics Management Stream

AL 1: Law of Business and Carriage

Synopsis

This subject gives an introduction to the basic business and carriage law. It covers two main general legal principles of business law, namely negligence and contract. The law covers the carriage of goods by air, sea and land, and their associated international conventions, insurance and arbitration — an alternative dispute resolution method that is getting more and more important in the transport and shipping industry. It is the intention that knowledge of the general concepts and understanding of the associated legal principles and applications are sufficient to meet the expectation of this subject.

Outline Subject Content

- A. Legal Systems
- B. Law of Contract
- C. Law of Negligence
- D. Law of Agency
- E. Law of Carriage
- F. Arbitration
- G. Insurance

Standard of Knowledge and Competence

A. <u>Legal Systems</u>

The Candidate has to demonstrate knowledge of:

- Categories of law
- Sources of law
- Legislative procedures
- International conventions
- Ordinances and regulations related to international trade, transport and logistics in Hong Kong

- Develop ability to address legal issues by understanding the national jurisdiction, sources of legal power
- Describe law making and amendment processes
- Understand how international treaties or conventions may have legal implications on business operations

• Identify relevant ordinances and delegated legislation in Hong Kong that regulate international trade / passenger transport / shipping / logistics operations

B. Law of Contract

The Candidate has to demonstrate knowledge of:

- The essential elements to form a contract
- The terms of a contract
- The privity of a contract
- The factors affecting the validity of a contract
- The discharge of a contract
- The remedies for breach of contract

The Candidate should be able to:

- Explain the three elements, namely the intention to create legal relations, the offer and acceptance and the consideration
- Understand the differences between terms and mere representation, conditions and warranties and expressed and implied terms
- State the case of "Dunlop Pneumatic Tyre Ltd vs. Selfridge & Co Ltd expressed by Viscount Haldane LC (1915) and the exceptions to the doctrine of privity of contract
- Explain the meaning of misrepresentation, mistake, duress, undue influence, incapacity and illegality
- Know how a contract can be discharged by performance, agreement, breach or frustration
- Identify the right to damages and the equitable remedies for breach of contract
- Apply legal concepts on analysing international trade, transport or logistics operations cases.

C. Law of Negligence

The Candidate has to demonstrate knowledge of:

- The general principle of the law of negligence (duty of care)
- A breach of the duty
- The meaning of causation of remoteness of damages
- The defence available
- The remedies

- Explain the meaning of the standard of care and when a duty of care arises
- Express the objective test / guidelines on a reasonable person related to breach of duty
- Understand the "but for" test in Cork vs. Kirby Maclean (1952) and the reasonable foreseeable objective test for remoteness
- Explain what are contributory negligence, consent and exception clauses in business

D. Law of Agency

The Candidate has to demonstrate knowledge of:

- The general nature of agency
- Appointment of agents and formation of agency
- Authorities, rights and duties of an agent
- Liabilities for unauthorised acts
- Termination of agency

The Candidate should be able to:

- Understand the nature of agency in commercial contexts especially in the transport and logistics context
- Illustrate different ways of appointing an agent and the formation of an agency
- Examine the rights and duties of the principal and agent in the context of transport and logistics operations
- Examine the liabilities that might be taken by an agent
- Describe the reasons and process on termination of an agency

E. Law of Carriage

The Candidate has to demonstrate knowledge of:

- The common carrier and private carrier
- Functions and operations of transport documents such as Bills of Lading, Air Waybill
- Hague Visby Rules, Warsaw Convention, Hague Protocol, Guadalajara Convention, Rotterdam Rules
- Duties and liabilities of carriers
- Knowledge on pursuing claims

- Distinguish between a common carrier and private carrier and understand the legal implications on carriers
- Illustrate understanding on operations of Bill of Lading and other transport documents on the carriage of goods by sea
- Illustrate understanding on the operations of Air Waybill and other transport documents on the carriage of goods by air
- Examine the background and legal implications on the Hague Visby Rules (HVR) under the context of carriage of goods by sea
- Examine the background and legal implications in the Warsaw Convention, Hague Protocol and Guadalajara Convention under the context of carriage of goods by air
- Examine the background and legal implications in the Rotterdam Rules that are governing the rights and obligations of shippers, carriers and consignees under a contract for door-to-door shipments that involve international sea transport
- Know how to protect the carrier's legal position by the defences available under HVR and observe the importance of the time limit under HVR
- Interpret the liability of a carrier for loss of or damage to cargo
- Know how the carrier's liability can be protected and how to determine the limit of liability

F. Arbitration

The Candidate has to demonstrate knowledge of:

- Meaning of arbitration, mediation and negotiation
- Types of arbitration
- Arbitration agreement
- Arbitral tribunal the appointment, removal and jurisdiction of the arbitrator
- The arbitral process and power of the arbitrators
- The award and the enforcement

The Candidate should be able to:

- State the differences between the various types of ADR and the advantages and disadvantages of arbitration
- Explain the meaning and the differences between international and domestic arbitration and ad hoc and institutional arbitration
- Understand the importance of arbitration agreements and what essentials are contained therein, such as jurisdiction and number of arbitrators
- Explain how an arbitral tribunal is formed and the provision in the legislation related to the appointment, removal and jurisdiction of the arbitrator
- State the fundamental principles of an arbitral process and the powers of arbitrators
- Know what an award is and recourse against the award, and the application of the New York Convention
- Understand the application and requirements under the Arbitration Ordinance 1996 in Hong Kong

G. Insurance

The Candidate has to demonstrate knowledge of the:

- Parties involved
- Types of insurance documents
- Meaning of contract of indemnity
- Meaning of utmost good faith
- Meaning of disclosure by the assured
- Meaning of insurable interest
- Claims procedures and documents needed

- Identify the parties involved in an insurance arrangement
- Explain different types of insurance documents and their functions
- Understand the principle of indemnity
- Understand that a contract for cargo or passenger insurance as a contract is based upon the utmost good faith and the legal consequences of not complying with such duty
- Explain the disclosure duty of the assured
- Explain the meaning of insurable interest and the particular moment that an assured must have an insurable interest
- Distinguish different types of insurance products and the coverage, and explain the expected perils of either freight or passenger transport

• Identify the documents needed in submitting a claim

Key Knowledge Areas

A. Legal Systems

Key Knowledge Areas	Coverage
Legal systems	Categories of law
	Court systems
	Sources of law such as precedents, customs,
	legislation etc.
	By-laws
Legislative procedures	Bill drafting, bills committee, readings and
	publication
	Amendment
International conventions	International conventions related to transport and
	logistics operations, such as: Hague Rules,
	Hague-Visby Rules; Hamburg Rules; Warsaw
	Convention 1929; Hague Protocol 1955 etc.
Ordinances and regulations	 Ordinances and regulations in Hong Kong
	relevant to the following areas:
	 International trade
	 Maritime and shipping
	 Land transport
	 Air transport

B. Law of Contract

Koy Knowledge Areas	Covorago
Key Knowledge Areas	Coverage
Essential elements	Offer and acceptance
	Legal intention
	Consideration
Terms of contract	• Distinction between terms and misrepresentation
	 Express and implied terms
	 Conditions and warranties
	• Intermediate or innominate terms
	• Exclusion clauses
Privity of contract	Meaning of the doctrine of privity of contract
	• Exceptions to the rule
Vitiating factors	• Definition, form and remedies of
	misrepresentation
	 Meaning and types of mistakes
	Definition and consequences of duress and undue
	influence
	• Incapacity – minors, corporations, persons of
	unsound mind etc.
	• Illegality-breaking the law and breaches of public
	morality

Discharge of a contract	General rule of performance
	Discharge by agreement – mutual or unilateral
	• Frustration – meaning, limitations and effects on
	the doctrine of frustration
	Breach – anticipatory breach
Remedies	Common law remedies – damages
	• Remoteness of damages, causation and types of
	damages recoverable
	Equitable remedies-specific performance and
	injunction
Application	• Identify legal principles to analyse cases related to
	sale of goods, contract of carriage or related to
	transport and logistics operations

Key Knowledge Areas	Coverage
Duty of care	 Neighbour principle – Donoghue vs. Stevenson (1932) For economic loss – Smith vs. Bush (1990) Types of economic loss Negligence misrepresentation – Caparo Industries vs. Dickman (1990)
Breach of duty	 Reasonable man test / how a reasonable man would act Standard of care Proof on balance of probabilities
Causation and remoteness	 "but for" test – Cork vs. Kirby Maclean (1952), Barnett vs. Chelsea and Kensington (1969) Proof of causation Intentional damage Unintentional damage – reasonable foreseeable test for remoteness Intervening act (novus actus interventions)
Defence	 General rule and meaning S21 Law Amendment and Reform (Consolidation) Ordnance (Cap 23) Consent – Slater vs. Clay Cross (1956) Limitation – Control of Exemption Clauses Ordinance (Cap 71)

D. Law of Agency

D. Law of recincy	
Key Knowledge Areas	Coverage
The general nature of agency	Concept of agent
	Principal-agent relationship
	Classes of agents
	Types of authorities
Appointment of agents and	Appointment
formation of agency	• Estoppel

	Ratification
	 Necessity
Authority, rights and duty of an	Authority of an agent
agent	 Rights of an agent such as remuneration,
	compensation and indemnity
	• Duties of an agent such as obeying of instruction,
	communication etc.
	 Applications
Liabilities for unauthorised acts	Agent to third party
	 Principal to agent
	Agent to principal
Termination of agency	• Discharge of contractual obligations
	 Renouncing the business of agency
	• Operation of law

E. Law of Carriage

E. Law of Carriage	C
Key Knowledge Areas	Coverage
Types of carriers	Common carriers
	Private carriers
Functions and operations of	Functions of Bill of Lading
transport documents	Functions of Air Waybill
	Operations of Bill of Lading and Air Waybill
	Absence, irregularity or loss of Air Waybill
	• Carrier's obligations under the implied terms in common law
International conventions and their implications on carriage of	• Carriage of Goods by Sea Act 1971 (COGSA 1971)
goods by various modes	 Hague Rules, Hague-Visby Rules (HVR) and Hamburg Rules
	• Applications of HVR: "voyage", "documents" and "goods"
	Warsaw Convention 1929
	Hague Protocol 1955 (the amended Convention)
	Guadalajara Convention 1961
	Rotterdam Rules
Duties and liabilities of carriers	Scope, duties and liabilities under the international conventions adopted
	• Duties of carrier, such as seaworthiness; handling cargo properly and carefully; issue of Bills of
	Lading
	Defences of carrier
	 All necessary measures
	 Contributory negligence
	Limitation of liability
Pursuing claims	Time limit in pursuing claims
	Importance of time limit
	Determination of liability limit
	Reduction of limitation of liability

Wilful misconduct

F. Arbitration

Key Knowledge Areas	Coverage
Arbitration, mediation and	Types of alternative dispute resolution,
negotiation	advantages and disadvantages of each type
Types of arbitration	Definition of international and domestic
	arbitration
	Institutional and ad hoc arbitration –advantages
	and disadvantages
	Document only arbitration
	Instant arbitration
Arbitration agreement	When to conclude an arbitration agreement
	Arbitration agreement in writing
	Jurisdiction and seal of arbitration
Arbitral tribunal	Appointment, removal and jurisdiction of
	arbitrators
	Responsibilities of an arbitral tribunal
	Number of arbitrators – umpires
	Role of HKIAC
Arbitral process and powers of	Procedures to be adopted
the arbitrators	Domestic Arbitration Rule of HKIAC and
	UNCITRAL Model Arbitration Rules
	• Provisions in HKAO 1996 related to the powers of
	the court and arbitral tribunal
	• Costs in arbitration – cost of reference and cost of
	the parties
The award and the enforcement	Types of award-interim and final
	Provision in HKAO 1996
	Is arbitration appealable as of right
	Recourse of action
	Grounds for setting aside the award
	Nema Guidelines
	New York Convention

G. Insurance

Key Knowledge Areas	Coverage
Parties involved	• The roles played by the assured, insurance broker, insurance agent and underwriter
	 Interests of various parties
Contract indemnity	Concept on contract indemnity
	Castellain v Preston [1883]
Utmost good faith	Concept on utmost good faith and its importance
	 Meaning of "uberrimae fidei"
	Consequence of non-compliance
Disclosure by assured	Concept on disclosure by assured
	 Meaning of material circumstances

	Circumstances that need not be disclosed in the
	absence of an inquiry
	S20 Marine Insurance Ordinance
	Consequence of non-compliance
Insurable interest	Concept on insurable interest, gaming or wagering
	contract
	S5 Marine Insurance Ordinance
	The moment that an assured must have an
	insurable interest
	S6 Marine Insurance Ordinance
	• Consequence of no insurable interest – S75 (2)
	Marine Insurance Ordinance
Insurance product and coverage	Various types of insurance
	Risks coverage on standard insurance products
Claims procedures and document	Procedures on claims
	Documents needed to substantiate a claim
	Time bars
	Conclude a claim

Core Reading

Felix W H Chan, Jimmy J M Ng, and Sik Kwan Tai. (2015). *Shipping and Logistics Law: Principles and Practice in Hong Kong*, 2nd ed. Hong Kong University Press, Hong Kong.

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Hoeks, M. (2010). *Multimodal Transport Law: The Law Applicable to Multimodal Contract for the Carriage of Goods*. Kluwer Law International.

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Rogers, A., Chuah, J., Dockray, M. (2020). *Cases and Materials on the Carriage of Goods by Sea*. 5th ed. Routledge.

Soyer, B. and Tettenborn, A. (2014). *Carriage of Goods by Sea, Land and Air: Uni-modal and Multi-modal Transport in the 21st Century*. 1st ed. Routledge.

Wilson, J.F. (2010). Carriage of Goods by Sea. Pearson, UK.

Hong Kong Legislations

Carriage of Goods by Sea Ordinance (Cap 462) Import and Export Ordinance (Cap. 60) Limitation Ordinance (Cap. 347) Sale of Goods Ordinance (Cap. 26) Unconscionable Contracts Ordinance (Cap. 458)

Advanced Level

Transport Management Stream

AL 2: Transport Systems and Management

Synopsis

This subject presents a fundamental understanding of the principles of operations systems and management, as applied to passenger transport. The emphasis is on appraising how operators can use these principles in their own workplace and to make comparisons with other transport undertakings.

It covers aspects of similarities and differences between different modes of transport, and between passenger and freight undertakings. The subject also requires a sound understanding of the management theories and processes associated with the formulation of urban transport policy and planning.

Outline Subject Content

- A. Transport Systems
- B. Transport Modes and Operational Characteristics
- C. Transport Management
- D. International and Local Regulatory Bodies

Standard of Knowledge and Competence

A. Transport Systems

The Candidate has to demonstrate the knowledge of:

- The recent concepts in transport systems
- The basic components in transport systems
- Interrelationships between various components
- Location of transport modes, connecting links and network structure
- The criteria for evaluating transport systems
- The role of humans in a transport system and their interactions
- Characteristics of passenger transport
- Products to be provided by suppliers

- Use the system and component concepts to analyse transport issues
- Identify problems on various basic components of transport
- Examine various activities in the system processes

- Analyse transport systems and traffic problems in terms of points, nodes, linkage and network
- Evaluate the strengths and weaknesses of a transport system
- Discuss the interface between human and transport systems
- Illustrate, with examples, the characteristics of passenger transport operations
- Identify various types of services to be provided by suppliers

B. Transport Modes and Operational Characteristics

The Candidate has to demonstrate the knowledge of:

- Operations of various modes of transport
- Operational characteristics of various modes of transport
- Operational system of intermodal coordination
- Passenger demand and satisfaction
- Safety and security in passenger transport operations

The Candidate should be able to:

- Identify the strengths and weaknesses of various modes of transport
- Use the framework to select suitable modes of transport for people or goods transport
- Evaluate how the characteristics may affect the choice of users
- Develop methods to assess passenger demand and measure passenger satisfaction
- Explain the need for enhancing security, especially in international services

C. Transport Management

The Candidate has to demonstrate the knowledge of:

- Management functions related to transport systems
- Functions of transport management
- Use of intelligent transport systems in transport management
- Aspects and techniques on transport management measures

The Candidate should be able to:

- Apply management concepts to transport management issues
- Identify the specific functions of transport management
- Illustrate the importance of transport management in various aspects
- Identify various types of intelligent transport measures and discuss the applications of the measures on transport management
- Examine the use and effectiveness of various transport management measures

D. International and Local Regulatory Bodies

The Candidate has to demonstrate the knowledge of the:

- Objectives of setting regulations for public and private transport
- Reasons for having government involvement
- Legal framework on regulating passenger transport
- Functions, aims and activities of various regulatory bodies in transport sectors

The Candidate should be able to:

- Discuss the reasons for setting regulations
- Describe the framework for regulating transport in various levels
- Evaluate the effectiveness of the regulations on transport
- Identify the forms of regulating regimes
- Examine the role of the regulatory bodies on transport

Key Knowledge Areas

A. Transport Systems

Key Knowledge Areas	Coverage
Transport systems	Definitions
	Basic components
	o Vehicles
	o Ways
	 Terminals
	 Unit of Propulsion
	Routing and scheduling
	Interrelationship among components
Network analysis	 Location of transport facilities
	Formation of network
	Links and nodes
	Traffic flow of network
	Minimum path analysis
Passenger transport services	Characteristics of transport operations
	Structure of the passenger transport industry
	• Various types of services to be provided by
	suppliers
Evaluation criteria for transport	Criteria on evaluating impacts
system	 Energy consumption
	 Air quality and noise pollution
	o Equity
	o Safety
	 Congestion
	 Land Use Impact
	Key Evaluation Criteria
	 Private and social costs
	 Economic and financial costs
	The Success Criteria
	o Reliability
	o Speed
	o Convenience
	o Personal security
	o Comfort
	o Consumer freedom
	o Privacy

Human interaction with transport	•	User impacts:
systems		o Travel time
		o Safety
		 Comfort and convenience
	•	Non-user impacts:
		 Environmental concern
		o Property value
		 Land use and urban development
		 Regional development
		 Economic activities
		 Social development

B. Transport Modes and Operational Characteristics

3. Transport Modes and Operational Characteristics		
Key Knowledge Areas	Coverage	
Modes of transport	Various modes	
	Ways of various modes: Air, Sea and Land	
	 Different modal characteristics 	
	• Inter-Modal Coordination (IMCP)	
Operational characteristics	• Speed	
	• Distance	
	• Rate of Flow	
	• Density	
	• Capacity	
	Operator Cost	
	Level of Service	
	Comfortability	
Intermodal operations	Use of the ways, rights of traffic, unit of carriage,	
	containers and unit load devices, loading and unloading devices, terminals and fuels	
Passenger demand and	Factors affecting demand of transport	
satisfaction		
Satisfaction	Fares, quantity demanded and factors affecting demand and demand elasticity	
	 Factors affecting passengers' satisfaction 	
	Ways of measuring passengers' satisfaction	
	 Mechanism on regulating quality of passenger transport 	
Safety and security	Importance of safety and measures on enhancing	
Surety und security	the safety of passengers	
	Arguments on enhancing passenger security	
	Security measures on international passenger	
	services	

C. Transport Management

C. Transport Management	
Key Knowledge Areas	Coverage
Management functions and	Policy formulation process
policy formation	Implementation procedures
	• Functions of management:
	o Planning

	 Controlling
	 Leading and directing
	 Evaluating
Functions of transport	 Orderly and safe operation of the transport
management	systems
	• Increasing the capacity of the transport systems
	for people and goods
	• Improvement of the quality of transport systems
	• Full or optimal utilisation of existing facilities
Intelligent Transport System	• Elements of ITS
(ITS)	 Objectives of using ITS
	 Effectiveness of using ITS
	 Global Positioning System and Geographic
	Information System
	 Remoting sensing and RFID
	• Use of information system and telecommunication
	on traffic management, emergency management,
	public transport and public transport enterprises
Transport management measures	Demand side:
	 Land use planning and zoning
	 Communication substitutes
	 Traveller information services
	 Economic measures
	 Administrative measures
	• Supply-Side
	Road traffic operation
	Preferential treatment
	Public transport operations

D. International and Local Regulatory Bodies

D. International and Local Regulatory Doules		
Key Knowledge Areas	Coverage	
Reasons for regulation	 Fundamental problems with the market mechanism: Externality Public goods Social costs Indivisibility Government and market forces: Monopolistic market structure Economies of scale Equity issues Some non-market considerations: Safety standards Standards of operating efficiency Strategic military factors 	
Forms of regulating	 State ownership Licensing or legal control Price control Quantity control 	

	Profit control
Regulations	 International framework on regulating transport industry
	 Government control on fares, quality of services, safety, pollution and sustainability
	 Local regulations on road traffic, public transport and equal opportunities
	By-laws
Regulating bodies	• International and local regulatory bodies of :
	 Road transport
	 Air transport
	 Maritime transport

Core Reading

Tolley, R. and Turton, B.J. (2014). *Transport Systems, Policy and Planning: A Geographical Approach*. Routledge, London.

White, P.R. (2008). *Public Transport: Its Planning, Management and Operation*. Routledge, London.

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Perallo, A., Hernandez-Jayo, U., Enrique, O. and Garcia-Zuazola, I.J. (2014). *Intelligent Transport Systems: Technologies and Applications*. Wiley, US.

Sinha, K.C. and Labi, S. (2007). *Transportation Decision making: Principles of Project Evaluation and Programming*. Wiley, US.

Advanced Level

Transport Management Stream

AL 3: Sustainable Transport

Synopsis

This subject presents the fundamentals of sustainable transport, which is an important area in the study of sustainable development. Sustainable transport concerns the interrelations between social, economic, and environmental issues in current and future transport systems.

This subject covers the various aspects of sustainable transport, including the engagement process of stakeholders in the planning and development of a transport system; the influence of technology on transport, road safety, fuel consumption and subsequent emissions and noise pollution; environmentally friendly vehicles and fuels; and the analytical ways of evaluating and regulating transport systems.

Outline Subject Content

A. Understanding Sustainability

B. Social Sustainability in Transport

- 1. Governance and policy
- 2. Engagement processes of stakeholders
- 3. Influence of technology

C. Economic Sustainability in Transport

- 1. Costs of transport
- 2. Demand for transport
- 3. Transport infrastructure financing and evaluation
- 4. Regulating the transport system through pricing/charging

D. Environmental Sustainability in Transport

- 1. Air pollution
- 2. Other environmental issues
- 3. Assessment of environmental impact
- 4. Fuels and cleaner vehicles

Standards of Knowledge and Competence

A. Understanding Sustainability

The Candidate has to demonstrate the knowledge of the:

- Definition of sustainable development
- Definition of social sustainability
- Definition of economic sustainability
- Definition of environmental sustainability
- Definition of sustainable transport

The Candidate should be able to:

- Define sustainable development and know that it is composed of three dimensions: social, economic and environmental
- Explore the factors that affect social sustainability
- Understand the important concepts in defining and evaluating economic sustainability
- Explore the factors that affect environmental sustainability
- State the nature of a transport system
- Define the criteria of a sustainable transport system
- Define the different indicators that are used to measure or quantify the sustainability of a transport system

B. Social Sustainability in Transport

1. Governance and policy

The Candidate has to demonstrate the knowledge of the:

- Global perspectives on public policy
- Local perspectives on public policy
- Barriers to policy implementation
- Different political theories that are applied to transport

The Candidate should be able to:

- State the tenets of the 1997 Kyoto Protocol
- Identify the barriers to the achievement of a global dimension for sustainable transport
- Understand the role of technology, economics, and land-use development policies
- Examine the needs of special groups such as the disabled, elderly, lower income class, students and women
- Identify and understand the different barriers to policy implementation
- Define the underlying principles, pros and cons of the political theories that are applied to transport

2. Engagement processes of stakeholders

The Candidate has to demonstrate the knowledge of the:

- Roles and values of transport services providers
- Participation of research and development groups

- Emerging of environmental pressure groups
- Special transport needs

The Candidate should be able to:

- Give the definition, aim, role, and influence of transport services providers on transport systems
- Illustrate the influence of research and development groups on transport systems
- Examine the influence of environmental and other pressure groups on transport systems
- Discuss the issues involved in fulfilling the transport needs of special groups

3. Influence of technology

The Candidate has to demonstrate the knowledge of the:

- Relationship between technology and transport
- Nature of an intelligent transport system as a technology for the improvement of transport systems
- Limitations of technology

The Candidate should be able to:

- State the influence of technology on emissions, resource consumption, and travel behaviour
- Identify the different areas of technology application in intelligent transport systems
- Identify different enabling technologies for intelligent transport systems
- State the effect of intelligent transport systems on production, working, living, and traveling
- State the limitations of the technology
- Understand the efficient use of road spaces through advance technology applications

C. Economic Sustainability in Transport

1. Costs of transport

The Candidate has to demonstrate the knowledge of:

- Direct costs of transport
- External costs of transport
- Revealed and stated preferences
- Travel cost methods for evaluation

- Determine the differences between short- and long-run costs
- Compare and contrast fixed and variable costs
- Understand average, marginal, and generalised costs
- Explain the effect of scale in estimating the costs of vehicle size and fleet size
- Categorise costs into common, joint, and specific costs according to the parties responsible for the costs
- Understand and use revealed preference, stated preference, and travel-cost methods for transport evaluation

• Define the economic cost of traffic congestion

2. Demand for transport

The Candidate has to demonstrate the knowledge of:

- The effect of planning and land use development on travel demand
- The effect of user behaviour on travel demand
- Methods for the measurement of demand elasticity
- The interrelationship between the cost of and demand for transport

The Candidate should be able to:

- Understand the influence of the land use pattern, price of transport services, the quality of services, income level, and user behaviour on demand for transport, and the relationship with sustainable transport
- Point out the difficulties in measuring demand elasticity
- State the factors, such as journey time and frequency of transport, that affect demand elasticity
- Explain the existence of an equilibrium price from the demand and supply curves of a transport system
- Extract information, such as consumer's surplus and total system cost, from the plot of the demand and supply curves of a transport system

3. Transport infrastructure financing and evaluation The Candidate has to demonstrate the knowledge of:

- Project financing
- Cost-benefit analysis

The Candidate should be able to:

- Describe private sector financing, public sector financing, and public-private partnership financing arrangements
- Perform a cost-benefit analysis of a simple project
- State the strengths and weaknesses of cost-benefit analysis as a project evaluation tool

4. Regulating transport systems through pricing The Candidate has to demonstrate the knowledge of:

- How to price or charge a transport service
- The nature of externalities-based charging
- The barriers to pricing and charging

- Understand the principle of pricing transport services
- State the different objectives, such as profit and welfare maximisation, of transport service pricing
- Use the marginal cost pricing approach to price a transport service
- Point out the difficulties of pricing a transport service
- Understand the principle of charging
- Know the different types of externalities-based charging
- State the different objectives of congestion charging

- Design an optimal congestion charge using demand and supply curves based on the marginal cost approach
- State the different environmental pricing methods
- Understand the different barriers to charging in a transport system

D. Environmental Sustainability in Transport

1. Air pollution

The Candidate has to demonstrate the knowledge of:

- The sources of emission
- The different types of air pollutants and their origins
- The consequences of air pollution to human health

The Candidate should be able to:

- Identify different on-road and off-road emission sources of air pollutants
- Identify the origins and consequences of air pollutants
- Describe the different consequences of air pollution and the specific causes of these consequences
- Identify measures (either traffic management or application of technology) to reduce road emissions

2. Other environmental issues

The Candidate has to demonstrate the knowledge of:

- Definition of traffic noise and sources of traffic noise
- Consequences of traffic noise to human health
- More emphasis on pedestrian needs
- Effect of transport on amenities and severance

- Define sources of noise, such as road traffic noise, railway noise, and aircraft noise
- State the scale and instruments that are used in the assessment of transport noise
- Understand the effect of noise on the community health, and sleep patterns
- Understand the principles of different types of noise abatement measures such as noise barriers, low noise road surfacing, etc.
- State the cause of and mitigation measures for road traffic noise that is caused by traffic like braking, surface water, steep gradient, etc.
- Understand the principles of risk assessments, such as quantitative risk assessments, "as low as reasonably practical' (ALARP) risk, and tolerable and negligible risk
- Value the cost of risk
- Understand the walking and park-and-ride are other kinds of sustainable form of transport and how to promote walking and park-and-ride in local
- Understand the pedestrian schemes
- Describe a method for amenity and severance assessment
- Describe the impact of transport amenities and severance and measures for their mitigation

3. Assessment of environmental impact

The Candidate has to demonstrate the knowledge of:

- Principles and processes of Environmental Impacts Assessment (EIA)
- Use, scope and objectives of EIA
- Evaluation techniques for the assessment of environment impact
- Limitations of EIA

The Candidate should be able to:

- Explain and describe the principles and the processes of EIA (the new EIAO and TM which come into effect in 2023)
- Examine the use of EIA on transport issues
- Understand the principle and usage of different evaluation techniques (avoided costs, contingent valuation, and travel cost model)
- Understand the limitations of EIA in the project implementation

4. Fuels and cleaner vehicles

The Candidate has to demonstrate the knowledge of:

- The commonly used fuels and their consumption and impact on the environment
- Alternative fuels and their prospects
- Cleaner vehicles and their advantages

The Candidate should be able to:

- State the origins, usage, and impact of gasoline and diesel on the environment
- Identify different kinds of alternative fuels (like LPG and electric) and describe their future prospects and limitations in Hong Kong
- Compare different kinds of cleaner vehicles
- State the advantages of cleaner vehicles

Key Knowledge Areas

A. Understanding Sustainability

Key Knowledge Areas	Coverage
Sustainable development	 Concept of sustainable development
	• The three different aspects: social, economic and
	environmental
Social sustainability	 Cohesion of community
	 Laws and civil rights
	 Moral traditions and values
	 Education and the health and nutrition of the
	individual
	 The sustainable development ethics
	 Equity and equal opportunity
Economic sustainability	Economic capital
	 Concepts of social costs, total costs, and
	beneficiaries
	• Concepts of evaluating environmental externalities

	Sustainability as an economic investment
Environmental sustainability	Natural capital
	Sources of raw materials
	• Understanding of renewable and non-renewable
	resources
	Disposal of human waste
Sustainable transport	Nature of a transport system
	Criteria of sustainable transport
	Sustainability indicators

B. Social Sustainability in Transport

1. Governance and policy

Key Knowledge Areas	Coverage
Global perspectives	 Global organisations and conventions including Framework Convention on Climate Change, Convention on Bio-diversity and 1997 Kyoto Protocol to the United Nations Framework on Climate Change Role of transport in sustainable development Barriers to achieving sustainable transport
National and local perspectives	 Role of technology policy Role of economic and fiscal policy Role of physical land-use and development policy Equity and equal opportunity Transport needs of the disabled, elderly, lower income class, school children and women
Barriers	 Resources barriers Institutional and policy barriers Social and cultural barriers Financial constraints Legal barriers Side effects Other (physical) barriers
Governing regimes	 Nationalisation of transport Privatisation of transport Regulated and deregulated markets

2. Engagement processes of stakeholders

Key Knowledge Areas	Coverage
Transport service providers	Definition
	Aim and role of the sector
	Engagement channels and impacts
Research and development groups	Definition
	• Aim and role of the sector
	 Engagement channels and impacts
Environmental and other pressure	Definition
groups	

•	Aim and role of the sector
•	Engagement channels and impacts

3. Influence of technology

Key Knowledge Areas	Coverage
Technology and transport	 Influence of technology on transport
	 Influence of technology on environment
Intelligent Transport System (ITS)	• Different areas of an ITS
	ITS-enabling technologies
	• Effect of an ITS
Limitations of technology	 Less socialising society
	Disparity between rich and poor
	 Desirability of having a pollution-free vehicle

C. Economic Sustainability in Transport

1. Costs of transport

Key Knowledge Areas	Coverage
Direct costs	Short-run vs. long-term cost
	 Fixed and variable cost
	 Average and marginal cost
	• The effect of scale
	 Responsibility for cost
	 Generalised cost
External costs	 Pecuniary and technological externalities
	 Evaluation of externalities
	 Congestion and pollution

2. Demand for transport

Key Knowledge Areas	Coverage
Factors affecting travel demand	Land use development
	Price of transport services
	Quality of services
	Income levels
	Travel behaviour
Measures of demand elasticity	Difficulties in measuring demand elasticity
	• Differences in the elasticity of different transport
	services
	Factors affecting the elasticity of demand
r otto	 Introduction of demand and supply curves for
of and demand for transport	transport systems
	• Existence of an equilibrium price
	 Extracting information from demand and supply
	curves

3. Transport infrastructure financing and evaluation

Key Knowledge Areas	Coverage
Types of project financing	Private sector financing
	 Public sector financing
	Public-private partnership
Cost-Benefit Analysis (CBA)	 Principles and formulas
	 Evaluation of the opportunity cost of capital
	 Strengths of cost-benefit analysis
	 Weaknesses of cost-benefit analysis

4. Regulating transport systems through pricing

Key Knowledge Areas	Coverage
Pricing transport services	 Principles of transport service pricing
	 Different objectives of pricing
	Marginal cost pricing
	 Difficulties of pricing
Externalities-based charging	Principles of charging
	 Congestion charging
	 Time-varying charging tolls
	 Pollution charging
Barriers to charging	• Fairness
	 Technological barriers
	• Public acceptance
	 Interests of service providers
	 Cooperation between service providers

D. Environmental Sustainability in Transport

1. Air pollution

Key Knowledge Areas	Coverage
Sources of emission	On-road sources
	 Off-road sources
Air pollutants and their origins	Carbon dioxide
	 Carbon monoxide
	Sulphur dioxide
	Particulate matters
	 Ozone
	Nitrogen dioxide
	• Other toxins
Consequences of air pollution	 Reduction in visibility
	 Health effect
	 Crop loss
	Material damage
	 Forest damage
	Climate change (global warming)

2. Other environmental issues

Key Knowledge Areas	Coverage
Noise	 Sources of noise
	 Assessment of transport noise
	 Effect of noise on humans
	 Noise abatement
	 Mitigation measures
Consequence of noise pollution	 Different kinds of risk
	 Risk assessment
	 Cost of risk
	Health Effect
Amenity and severance	 Definition of amenity and severance
	 Methods for assessing amenities and severance
	 Impact of transport on amenities and severance
	 Measures to improve amenities and reduce
	severance (policies and planning)

3. Evaluation of environmental impact

5. Evaluation of chivin on mental impact	
Key Knowledge Areas	Coverage
Environmental Impact Assessment	Principles of EIA
(EIA)	Scope and objectives
	Processes and procedures
	Major environmental factors
	Limitations of EIA
Evaluation techniques	Change in customer and producer surplus
	Avoided costs
	Averting behaviour
	Hedonic price method
	Contingent valuation
	Choice experiments
	Travel cost models

4. Fuels and cleaner vehicles

Key Knowledge Areas	Coverage
Commonly used fuels and their	Gasoline
consumption and impacts on the	• Diesel
environment	Pollutants and environmental impacts
Alternative fuels and their	Compressed natural gas
prospects	Liquefied petroleum gas
	Methanol
	• Ethanol
	Biodiesel
	Hydrogen
	Electricity
	Methane
Cleaner vehicles and their	The internal combustion engine
advantages over vehicles with	Battery electric vehicles

internal combustion engines	Hybrid electric vehicles
	• Fuel cell vehicles
Reducing emission	Measures for public transport
	 Measures for private transport
	 Measures for freight transport

Core Reading

Gerike, R. and Hulsmann, F. (2013). *Strategies for Sustainable Mobilities: Opportunities and Challenges*. Ashagte Publishing, US.

Tumlin, J. (2012). Sustainable Transportation Planning: Tools for Creating Vibrant, Healthy and Resilient Communities. Wiley, US.

Button, K. (2010). *Transport Economics*, 3rd ed. Edward Elgar Publishing Company, England, Vermont.

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Banister, D. (2005). Unsustainable Transport. Routledge, London.

Hensher, D.A. and Button, K.J. (2003). *Handbook of Transport and the Environment*. Elsevier Group Publishing, Kidlington, Oxford, UK.

Pope, J.P. (2005). Transport Economics. Vineyard Publishing, Australia.

Transport Department (1999), Third Comprehensive Transport Study

Planning Department (2002), Study on Planning for Pedestrians, Stage 1 Public Consultation, Hong Kong: HKSAR Government.

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Advanced Level

Transport Management Stream

AL 4: Transport Policy and Planning

Synopsis

This subject covers the key aspects of transport policy and planning. It focuses on the role of the government in shaping transport in a society. The government organisation and other related organisation in relation to transport strategies and policy formulation and implementation are first covered. Then, the transport planning process and the four-stage transport planning model are introduced. Lastly, the role of transport in influencing development patterns and the interrelationships between transport infrastructure, land-use and travel behaviour are analysed. Local applications would be examined whenever possible.

Outline Subject Content

- A. Government and Politics in Relation to Transport
- B. Transport Strategy and Policy Formation and Implementation
- C. Transport Planning
- D. Transport and Development Patterns
- E. Transport, Land-Use and Travel Behaviour

Standards of Knowledge and Competence

A. Government and Politics in Relation to Transport

The Candidate has to demonstrate the knowledge of:

- The government organisation and other related organisations in relation to transport
- The influence of politics on transport
- The importance of transport in public budgetary expenditure
- Alternative ways of funding transport
- Regulation on public transport

- Identify the transport-related government bodies and organisations
- Distinguish between central and local authorities
- Distinguish between statutory and non-statutory bodies
- Describe the importance of politics, consultation and public participation
- Highlight the significance of transport in public budgetary expenditure
- Know the different funding methods for developing and supporting transport

• Evaluate the regulatory impacts on various public transport such as fare determination, quality and environmental impacts

B. Transport Strategy and Policy Formation and Implementation

The Candidate has to demonstrate the knowledge of:

- The top-down and bottom-up approaches
- Concepts of public governance
- Common transport problems in urban, regional and cross-boundary contexts
- Common measures used to tackle transport problems
- Objectives of transport policy

The Candidate should be able to:

- Describe the policy formation process for transport
- Identify the key issues and constraints
- Outline the common transport problems
- Describe the different measures and approaches in alleviating transport problems
- Describe and understand the major transport policy objectives

C. Transport Planning

The Candidate has to demonstrate the knowledge of:

- Rationales for transport planning
- Transport planning process
- Conventional four-stage transport planning model
- Key advantages and limitations of the four-stage transport planning model

The Candidate should be able to:

- Explain the reasons for transport planning
- Identify the key steps in the transport planning process
- Describe the traditional four-stage transport planning model
- Outline the major data requirements for the traditional four-stage transport planning model
- Outline the major methods used in the traditional four-stage transport planning model
- Give a critical appraisal of the traditional four-stage transport planning model
- Describe the latest developments in improving and supplementing the traditional four-stage transport planning model

D. Transport and Development Patterns

The Candidate has to demonstrate the knowledge of:

- The nature of transport infrastructure as a form of social overhead capital
- Different impacts of transport on the economy
- Different impacts of transport on the spatial structure of a society
- Roles can transport policy play as a tool of development
- Considerations of road freight transport planning and movements of goods

The Candidate should be able to:

- Describe the nature of social overhead capital
- Understand the reasons for classifying transport as a type of social overhead capital
- Distinguish the generative, permissive and negative roles of transport
- Distinguish the spread, redistributive and backwash roles of transport
- Conduct a critical analysis of assigning transport a positive and active role in development policies
- Conduct a critical analysis of assigning transport a negative and passive role in development policies
- Analyse freight transport planning and its impacts on regional development

E. Transport, Land-use and Travel Behaviour

The Candidate has to demonstrate the knowledge of:

- Relationship between transport and land-use
- Concepts on accessibility and smart mobility
- Travel behaviour and trip planning
- Land-use patterns affecting people's travel behaviour
- Major trends and challenges associated with the changing land-use patterns in many developed cities
- Infrastructure planning and market intelligence

The Candidate should be able to:

- Describe the interrelationships between transport and land-use
- Understand the smart mobility such as underground parking
- Understand the concept and importance of accessibility for people such as barrier-free facilities (lifts, escalator link, covered walkway, etc.)
- Understand the needs for integrated transport and land use planning
- Identify the factors affecting journey planning such as distance, destination, travel time, waiting time
- Analyse the implications of different land uses on people's travel behaviour, including trip generation/distribution, modal choice, route choice, departure and arrival time, etc., and their activity patterns
- Analyse the implications of changing land-use patterns, for example, suburbanisation or spatial sprawl, on people's travel behaviour
- Conduct a critical review of the major transport trends and challenges associated with the above changing land-use patterns
- Examine the factors affecting infrastructure planning and evaluate transport infrastructure projects in various aspects

Key Knowledge Areas

A. Government and Politics in Relation to Transport

Key Knowledge Areas	Coverage
Government organisation and	Relevant Bureaus
other related organisations	Relevant Departments
	Central and local authorities

	Statutory and non-statutory bodies
Politics	Political process
	Public participation
	Non-governmental organisation
	Consultation/engagement and partnership
Public expenditure	Government budgetary consideration
	Funding methods
	• Economic returns vs. financial returns
	Private and public partnership
Regulating public transport	Reasons for regulating public transport
	Policy and implementation framework
	• Fare determination on public transport
	Political aspects
	Acceptability and affordability
	Degree of de-regulation

B. Transport Strategy and Policy Formation and Implementation

n ev	olicy Formation and Implementation
Key Knowledge Areas	Coverage
Policy formulation process	 Parties involved in the process
	 Bottom-up and top-down approaches
	 Consultation process
	Public governance
Common transport problems	• Under-capacity, associated with traffic
	congestion, etc.
	 Over-capacity, associated with opportunity costs and waste of resources
	Public transport problems, associated with
	subsidies, competition, needs of the transport
	disadvantaged, etc.
	• Private transport problems, associated with
	pollution, traffic congestion, different forms of
	pricing, parking problems, etc.
	Transport safety
Common transport measures	• Infrastructure planning and implementation
	Government regulations
	• Traffic management measures
	Demand restraint
Objectives of transport policy	 Recent transport policy objectives
	 Relationship with the general government policy objectives
	• Interconnectivity with other policy objectives such
	as land use development, environmental
	protection, social welfare and tourism etc.

C. Transport Planning

Key Knowledge Areas	Coverage
Need for transport planning	Reasons for transport planning

	Aims and objectives of transport planning
The transport planning process	 Planning standards and guidelines
	 Public inquiry and consultation/engagement
	Traffic demand forecasts
	Project based planning
	Monitoring
	 Various types of evaluation
The traditional four-stage	Major data requirements
transport planning model	 Major ways of data acquisition
	Major assumptions
	Four-stage model
	 Trip generation
	 Trip distribution
	 Trip modal split
	 Trip assignment
	 Typical methodologies used at each stage
	Some commonly-used software
Critical appraisal of the	Key advantages
traditional four-stage transport	Major limitations
planning model	• Latest developments, for example, the use of stated preference data

D. Transport and Development Patterns

D. Transport and Development Patterns	
Key Knowledge Areas	Coverage
Nature of transport infrastructure	 Definition of social overhead capital Characteristics of transport infrastructure (public vs. private, productive vs. consumptive, economic vs. non-economic, fixed vs. footloose) Social investment Highways, rails, airports, ports, terminals, logistics parks, pipelines
Impacts of transport on the economy	 Generative role, with transport playing a catalytic role in development Permissive role, with transport as a necessary but not sufficient condition for development Negative role, with resources spent on transport seen as not yielding the best economic returns
Impacts of transport on the spatial structure of a society	 Spread effect, with transport opening up new and wider areas for development Redistributive effect, with transport only changing the comparative advantages of different areas Backwash effect, with transport leading to the polarisation of development in the most developed areas only
Transport policy prescriptions	Positive and active roles, with new transport infrastructural development taking a leading role in creating and opening up development opportunities, and enhancing connectivity

	between development areas
•	Negative and passive roles, with new transport
	infrastructural development seen as causing
	further congestion problems and should only
	follow development
•	Factors affecting freight transport

E. Transport, Land-Use and Travel Behaviour

Key Knowledge Areas	Coverage
Transport and land use interactions	 Interactive process between land use and transport Accessibility and mobility Various scales of land use and transport interaction
Trip planning	 Factors affecting trip planning and use of modes Distance of travel, waiting time, in-vehicle time, destination, trip purposes etc. Revealed preference and utility maximisation
Infrastructure planning and evaluation	 Infrastructure and economic development Aspects of evaluation – financial, economical, technical, environmental, political and social Market intelligence and infrastructure planning
Land use and travel behaviour	 Types of land use and associated activities Trip characteristics, including generation/distribution, time, duration, mode and route, associated with different activities Major changes in land use in developed cities, including suburbanisation and spatial sprawl The associated major trends and challenges, including more and longer trips Travel and journey planning Accessibility and travel behaviour

Core Reading

Button, K.J. and Hensher, D.A. (eds.) (2005). *Handbook of Transport Strategy, Policy and Institutions*. Emerald Group Publishing, Amsterdam.

Dimitriou, H.T. and Gakenheimer, R. (2012). *Urban Transport in the Developing World: A Handbook of Policy and Practices*. Edward Elgar Publishing, UK.

Hong Kong Moving Ahead: A transport strategy for the future, HKSAR

The Third Comprehensive Transport Study: Final Report, HKSAR

Public Transport Strategy Study June 2017, HKSAR

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Toll Rationalisation Study of Three Road Harbour Crossings and Three Land Tunnels between Kowloon and Sha Tin - Feasibility Study: Final Report, HKSAR

The Second Parking Demand Study Final Report, HKSAR

Hong Kong Planning Standards and Guidelines, PlanD, HKSAR

Advanced Level

Logistics Management Stream

AL 5: Global Supply Chain Management

Synopsis

The subject covers the study of Supply Chain Management (SCM), an end-to-end process of freight movements. It encompasses the full scope of supply chain management with special focus on the global perspective, as per the title.

Candidates attempting this subject should have a fair knowledge of trade terms, international and domestic rules and regulations governing different transport modes, and the characteristics of transport systems. Candidates are expected to appreciate and understand the evolution of international trade, globalisation of the economy and trade flows, division of labour, inventory control, production and distribution centres, and the consumer markets. It is also expected that candidates have up-to-date knowledge about the industry; to adopt KPI measurement to check efficiency; and to apply modern technologies such as material/cargo handling automation information systems, bar codes, RFID and GPS from procurement process of raw materials and spare parts up to distribution of finished products to the markets and consumers.

Outline Subject Content

- A. Transport and Supply Chain Management
- B. Business Environment and Management of Global Supply Chain
- C. Procurement, Warehousing, Inventory and Operations Management
- D. Containerisation, Unit Loads and Intermodal Transport.
- E. Globalisation of World Economy and Supply Chain Strategy
- F. Alliance, Synergy and Integration of Global Supply Chain Operations
- G. Technological Development in Supply Chain Management
- H. Future Challenges and Issues

Standard of Knowledge and Competence

A. Transport and Supply Chain Management

The Candidate has to demonstrate the knowledge of:

- Definitions of supply chain and supply chain management
- Different flows in the supply chain
- The function of different transport modes related to freight transport
- Decision models for transport services and networks
- Lean and agile supply chains

The Candidate should be able to:

- Understand the concepts of the supply chain, supply chain management and the flows inside the supply chain
- Identify key elements for designing networks for the physical flow of goods
- Decide on the locations of transport hubs-and-spokes, warehouses and distribution centres, and service networks
- Discuss the concepts of lean and agile supply chains in response to customer needs

B. Business Environment and Management of Global Supply Chain

The Candidate has to demonstrate the knowledge of the:

- Organisation and behaviour of individuals and groups within an organisation; leadership, entrepreneurship and followers
- Interpretation of financial statements, budgeting, and investment project appraisal
- Trends in marketing channels, customer services, and transport and logistics development
- Trade terms and legal aspects related to the conduct of business and transport
- Aspects and recent developments in the international business environment
- Various external and internal impacts on the global logistics sector
- Various types of risk in supply chain operations
- Various related international organisations and conventions

The Candidate should be able to:

- Plan and manage an effective organisation
- Prepare a budget and use a financial statement as a tool to evaluate the financial performance of an investment
- Understand legal liability in relation to contract and transport
- Set strategies to meet sales/marketing needs and design campaigns to satisfy customers' requirements
- Examine the impacts of the changing business environment and propose recommendation to the Management
- Identify external and internal impacts on global logistics services providers
- Evaluate various types of risks on supply chain operations (customs regulations for example)
- State the sources of legislation and main legal requirements for operations
- Illustrate the role of various international organisation and conventions

C. Procurement, Warehousing, Inventory and Operations Management

The Candidate has to demonstrate the knowledge of:

- Sourcing models, best choice evaluation, and E-business in procurement
- Location of facilities, material flow processes and analyses, and material handling systems
- Principles of managing the production of goods and services
- Benchmarking performance: setting Key Performance Index (KPI)

The Candidate should be able to:

• Choose the sourcing channel: ownership and outsourcing to 3PL providers

- Examine the requirements of warehouse layout design and planning
- Apply principles and tools in managing both services and manufacturing
- Apply KPI to measure the customer satisfaction level and operation efficiency

D. Containerisation, Unit loads, and Intermodal Transport

The Candidate has to demonstrate the knowledge of:

- Intermodal transport systems: containerisation and unit loads
- Land-based support systems to backup containerisation
- Intermodality of containers and extension of cargo hinterland

The Candidate should be able to:

- Apply containerisation as a homogeneous unit of carriage and its intermodal characteristics to expand the cargo catchment area, i.e. the market
- Design a hub-and spoke plan to meet the sales and business strategy

E. Globalisation of World Economy and Supply Chain Strategy

The Candidate has to demonstrate the knowledge of:

- An understanding of the macro-economics labour, output, money and foreign exchange market that are influenced by the major economies and markets
- Division of labour, world production centres and consumers' markets
- Specialisation in commercial activities.
- Emerging of Supply Chain Management (SCM), Third Party Logistics (3PL) providers and multi-national corporations

The Candidate should be able to:

- Decide the best combined modes and systems to suit the company's logistics requirements
- Discuss elements in designing global supply chain strategies
- Recognise the opportunities and challenges of the supply chain industry

F. Alliance, Synergy and Integration in Global Supply Chain Operations

The Candidate has to demonstrate knowledge of the:

- Emergence of shipping consortia and airlines alliances: the rationale of code-sharing and risk-sharing, and expanding market coverage
- Technology innovations in carriers (container liner shipping and also airlines): increase in both size and capacity, and also speed and efficiency, which require partnership
- Planning of carriers' hub and feeder ports (also airports and other modes), and 3PL's load centres and distribution centres

- Plan logistics services based on available multi-modal services in the market
- Select load centres and distribution centres to best suit the market requirements

G. Technological Development in Supply Chain Management

The Candidate has to demonstrate the knowledge of:

- Availability of new technologies and automation systems in the logistics sector
- Automation a trade-off with manual work. Efficiency vs. Cost. Adopting automation in conducting business and production.
- An understanding of new information technologies for building e-business models to achieve competitive advantage and creating an innovative supply chain.

The Candidate should be able to:

- Apply new technologies in daily business to best suit the requirements
- Observe technology innovations and to make changes
- Apply new technologies in e-business to achieve competitive advantage
- Discuss issues in e-commerce, m-commerce and business/artificial intelligence

H. Future Challenges and Issues

The Candidate has to demonstrate the knowledge of:

• The continuous changes of the world economy; mergers and acquisitions; and new technology developments

The Candidate should be able to:

- Examine the trend of development in Supply Chain Management
- Make adjustments or corrections to accommodate the changes in business
- Discuss the issues on Supply Chain Management in Mainland China, and other emerging economics

Key Knowledge Areas

A. Transport and Supply Chain Management

Key Knowledge Areas	Coverage
Supply Chain and supply chain	Concepts of the supply chain
management	Supply Chain Management
	Flows in supply chains
	 Physical goods flow
	 Information flow
	 Financial flow
	Collaboration, competition and conflicts among
	firms
Lean and agile supply chain	Lean and agile manufacturing
	Responses to special requirements
	Flexibility and adaptability
Multi-channel supply chain	Functions and types of distribution channels
	Characteristics of various types of distribution
	channels
	Vertical and horizontal channels
	Relationship among firms in a supply chain

Location and Network decisions	Direct shipment
	Milk runs
	 Distribution centres
	 Cross-docking
	 Centralised vs. decentralised facilities
	 Inventory aggregation
	 Temporal aggregation

B. Business Environment and	Management of Global Supply Chain
Key Knowledge Areas	Coverage
International business environment: the concepts and organisation of international trade	 The concept and organisation of international trade Strategic trade theory, international trade policies Market access Multinational corporation: role and influence External impacts International business strategies Environment appraisal Government and inter-government organisations Internal impacts International business performance Supply chain strategies Factors: strategic, managerial, organisational
Management of organisations	 and marketing Organisation development Functional aggregation Collaborative relationships management Developing trust Finance and accounting Strategic management – collaboration and integration
Potential risk inherent in the international supply chain	 Risks: operational, financial, political, economic, commercial Risk management and reduction
National and international legislation	 Conventions related to international transport, Hague Rules, COGSA, and the Warsaw Convention etc. Legal implications and liability as per Air Waybills and Bills of Lading Insurance for transit goods and international transport
International organisations and business organisations	 Roles and functions of IMO, IATA, ICAO and other relevant organisations Provisions of ATP, ADR and other relevant conventions Structure and organisations of freight industries

	 Characteristics of the international freight industry
	 Organisations of transport operations for hire and reward and own account
	 Access to market
	Freight agents and subcontractors
	Role of third party contractors in freight
	forwarding and groupage operations
Improving supply chain network	Reasons for improving supply chain networks
design and management	Process of re-evaluation
	Network analysis
	Internal audit
	External factors and internal factors

C. Procurement, Warehousing, Inventory and Operations Management

Key Knowledge Areas	Coverage
Procurement process and	• Procurement perspectives
planning	• Procurement strategies
Just-in-time, VMI and CMI	• E-commerce
	• Just-in-Time
	VMI, CMI and others
Warehouse management and	Cargo and material handling and storage
planning	Warehouse planning
	Warehouse strategies and functionality
	Warehouse operations
Operations management	Inventory management
	Transport management and scheduling
	• Packaging
	Materials handling
Key performance indicators	Measurement system objectives
	Financial assessment
	Measuring customer satisfaction rate
	Benchmarking

D. Containerisation, Unit Loads and Intermodal Transport

Key Knowledge Areas	Coverage
Emergence of unit loads,	Palletisation, lift vans and unit loads
containers and intermodal	Cargo security and protection
transport systems	
Implication and issues related to	Efficiency and re-handling reduction
intermodal transport systems	System approach in conducting business
	Cost and investment: systems vs. manual work
Planning of intermodal transport	• Interoperability on unit of carriage, facilities and
	equipment
	Land-bridges and canals
	New navigation and rail routes
	Sea-air connection, and other transport modes

E. Globalisation of World Economy and Supply Chain Strategy

Key Knowledge Areas	Coverage
Globalisation and division of labour	Global and Regional production centres and consumers' markets
	 Trade flow: raw materials and finished products Shrinking world with technology innovations
Multi-national corporations and business strategy	 Cost awareness, emergence of new production centres Outsourcing of procurement, shipping and distribution activities
Supply Chain Management (SCM) and Third Party Logistics providers	 Specialisation in logistics functions: emergence of SCM and 3PLs Logistics function: a tool for sales and marketing Global networks Designing supply chain operations Opportunities and challenges

F. Alliances, Synergy and Integration in Global Supply Chain Operations

1. Himanees, Synergy and the	egration in Global Supply Chain Operations
Key Knowledge Areas	Coverage
Shipping consortia and airlines	• Service frequency and networks, market coverage,
code-sharing	and risk-sharing
Hub ports and feeder ports	Increasing size in containerships and aircraft
	Limitation of direct calls at transport hubs
	Ports as transport hubs in supply chains
	• Extensive market coverage by feeder services, i.e.
	feeder vessels and land systems
Global supply chain management	Distribution and consolidation centres
	Changes in market trends: reduction of
	intermediate nodes; direct delivery to retail stalls
	and markets

G. Technological Development in Supply Chain Management

Key Knowledge Areas	Coverage
Information Networks	Information system functionality
	• Enterprise Resources Planning (ERP)
	Paperless work environment
Execution Systems	Customer Relationship Management
	Transport Management System
	Warehouse Management System
	Challenges in execution systems
Web-based technology	Strategic collaboration
	Round-the-clock operation
	Market integration
	• Web-based EDI and the use of XML
	Web-based service providers
Technology as a basic	Trends of automatic ID for goods
requirement for collaboration	Technology as a basic alliance requirement

	-
	 Compatibility of technologies
	• Cases of
	o RFID
	o GPS
	Competitive edge of various technologies
	Inertia of traditional technology
E-business models	Business features
	 System functionality and performance
	 Collaboration
	Business role
	 Competing on global scale, design and quality,
	and business process management
E-commerce	Digital markets and digital goods
	Commerce operating model
	 Marketing transformation
	Business to business
	M-commerce
	• Issues in e-commerce
Business/Artificial intelligence	Business intelligence
	Artificial intelligence
	Artificial intelligence techniques

H. Future challenges and issues

Key Knowledge Areas	Coverage
Future challenges	Green distribution and environmental
	management system
	Globalisation and world trade patterns
	Technological advancement
Regional economic development	Regional logistics hubs
	Hub-and-spoke and supply chain strategies
Merger and acquisition in the	Optimal scale and diseconomies of scale
transport and logistics industry	Application of Game theory
	Interdependence behaviour
Developments in China	Time-definite vs. time critical logistics
Mainland, and other emerging	Opportunities for cooperation and coordination
economies	between Mainland China and Hong Kong
	• Transport infrastructure, institutional arrangement
	and other considerations

Core Reading

Chopra, S. and Meindl, P. (2015). Supply Chain Management: Strategy, Planning and Operation, 6th ed. Prentice-Hall, New Jersey.

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Simchi-Levi, D., Simchi-Levi, E. and Kaminsky, P. (2007). *Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies*, 3rd ed. McGraw-Hill, Boston.

Advanced Level

Logistics Management Stream

AL 6: Logistics Management

Synopsis

Firms running businesses in the new millennium face a number of harsh competitive realities. Firstly, manufacturing a quality product is no longer sufficient by itself to engender customer loyalty. Companies have to consistently deliver a product when and where their customers demand it, at a reasonable price. Secondly, the distinction between a domestic and international market is fading. Western and Eastern countries or even China and India themselves are so vast and their citizens are so culturally different that a firm's domestic logistics issues in these countries may be virtually identical to those encountered when they sell internationally. Indeed, one could argue that all business is potentially operating in the global environment. Finally, logistics is becoming more important to companies as they strive to serve and satisfy customers in increasingly diverse markets, wherever they may be.

The aim of this subject is intended to accomplish three objectives:

- 1. To deliver conceptual understanding on the nature of logistics activities in general and how these tasks function in a global setting;
- 2. To show how these activities can be grouped together to form an integrated logistics system;
- 3. To acquire the knowledge and skills to turn their corporate logistics activities into sources of sustainable competitive advantage in the global business arena.

Outline Subject Content

- A. Introduction to Logistics
- B. Global Trade Logistics
- C. Movement of Goods
- D. Managing the Inbound Logistics and Purchasing in the Organisation
- E. Managing the Outbound Logistics
- F. Customer Care and Service Quality
- G. Organising for Logistics Effectiveness

Standard of Knowledge and Competence

A. <u>Introduction to Logistics</u>

The Candidate has to demonstrate the knowledge of the:

- Components in a logistics system
- Total cost concept and trade-offs in Logistics Management
- Reasons for the growing concerns in logistics and Supply Chain Management
- Logistics and information technology

The Candidate should be able to:

- Illustrate and describe the components in a logistics system
- Use the total cost concept to investigate logistics problems
- Identify trade-offs in logistics issues
- Examine the reasons for the growth of the logistics sector
- Portray the growing concern on global logistics issues
- Recognise the importance of using information technology in logistics

B. Elements of International Trade Logistics

The Candidate has to demonstrate the knowledge of:

- Characteristics, advantages and disadvantages of various modes
- Incoterms and contractual obligation
- Legal requirements for packaging, handling and labelling Various rates and charges determination regimes
- General knowledge of freight insurance
- Functions of the main documents used in commerce
- General knowledge on customs processes and documentation
- Transport document: financial documents and trade documents
- New developments in e-freight and electronic documentation
- Customs tariffs, excise and duties, variations in international trade
- Free-trade zone, bonded zone and carnet practices
- Cargo security in international trade

- Evaluate the suitability of different modes under different circumstances
- Compare the differences among different Incoterms and evaluate the risks to various parties
- Distinguish between various rating and charging methods
- Understand the practices of trade documents, freight insurance and customs processes
- Examine the use of financial documents in financing trade and the implications on logistics practices
- Understand the general customs practices in international trade (origin-destination), and the benefits of using free trade zones or bonded logistics systems
- Recognise the importance of information needed in logistics processes
- Understand the importance of cargo security and illustrate the practices for enhancing the security level

C. Movement of Goods

The Candidate has to demonstrate the knowledge of:

- Various factors that may affect the handling of goods
- Characteristics and nature of goods that may affect the goods movement
- Flow patterns of different types of cargo
- Transport of dangerous goods and hazardous freight
- Fleet management and operations
- Concepts and techniques on routing and scheduling
- Basic components of different modes of transport
- Various logistics activities at modal nodes
- Requirements for efficient movement of goods

The Candidate should be able to:

- Identify the different characteristics and nature of goods that may affect the movement of the goods
- Illustrate the major factors that may affect the handling of goods
- Portray the flow patterns of goods in both global and national contexts
- Describe the concepts and techniques in routing and scheduling
- Examine various considerations in fleet management
- Describe the framework governing movement of dangerous goods and the practices for reducing risk of moving dangerous goods
- Explain the major components, functions and activities of different modes of transport
- Examine the requirements for the efficient movement of goods

D. Managing the Inbound Logistics in the Organisation

The Candidate has to demonstrate the knowledge of:

- The practices and importance of inbound logistics
- Various components and activities in inbound logistics
- Goals and objectives of purchasing activities
- Management techniques for improving materials handling management

The Candidate should be able to:

- Illustrate the distinctive features of current inbound logistics practices
- Explain the activities involved in inbound logistics
- Examine the efficiency of the practices in inbound logistics
- Highlight the goals, tasks and objectives of purchasing
- Explain how to improve the procedures and effectiveness of purchasing
- Evaluate which management techniques may help to improve materials management

E. Managing the Outbound Logistics

The Candidate has to demonstrate the knowledge of:

• The recent developments in the retail market and the requirements for outbound logistics

- Different supply chain strategies to enhance the efficiency of the retail market
- Factors to be considered in restructuring retail logistics systems
- Concepts, processes and elements in reserve logistics
- Logistics strategies on distribution channels and networks
- Roles, services and practices of third party logistics providers

The Candidate should be able to:

- Examine recent developments in retail market distribution and outbound logistics
- Identify the main contributions and elements in various logistics strategies
- Describe the concepts and explain the needs for reverse logistics processes
- Illustrate the process of formulating logistics strategies for outbound distribution networks
- Identify and examine the needs for integrating logistics channels
- Discuss the roles of third party logistics providers
- Evaluate the needs for third party logistics services in different circumstances

F. Customer Care and Service Quality

The Candidate has to demonstrate the knowledge of the:

- Concepts and elements in customer services in the logistics sector
- Features and characteristics of service provided in the logistics sector
- Requirements for developing and maintaining service quality
- Procedures and requirements for setting quality standards
- Concept and practices of total quality management
- Factors to be considered in quality control and assurance
- Information required and information systems on quality management
- Concepts, benefits and processes of benchmarking in logistics services
- Administrative, legal and financial considerations on quality management

The Candidate should be able to:

- Illustrate the distinctive features and the importance of customer care in the logistics sector
- Highlight the importance of service quality in the logistics sector
- Design and explain the setting of various quality standards and performance indicators in logistics practice
- Examine the effectiveness of quality control and assurance systems
- Identify the use of information systems in quality management and illustrate its importance
- Consider other factors and criteria for good quality management

G. Organising for Logistics Effectiveness

The Candidate has to demonstrate the knowledge of:

- Concepts, components and development of an optimal logistics organisation
- Strategic consideration for logistics organisational effectiveness
- Methods and techniques on measuring the effectiveness of logistics organisations
- Elements and considerations of the "best" organisation

The Candidate should be able to:

- Illustrate and explain various components of an optimal logistics organisation
- Discuss in different management aspects the effectiveness of logistics organisation
- Evaluate different strategic tools for improving organisational effectiveness
- Illustrate the considerations and factors in developing an effective logistics organisation
- Identify tools to measure effectiveness in a comprehensive way
- Discuss holistically on what is the best organisation structure

Key Knowledge Areas

A. Introduction to Logistics

Key Knowledge Areas	Coverage
Components of a Logistics System	Various components: purchasing, information maintenance, product scheduling; material handling; inventory, warehousing; order
	 processing, transport, customer services etc. Interrelationship among components Trade-off among various components
Factors affecting a company going global	 World market potential Excessive production Extending the product life cycle by geographical diversification Logistics as a source of "competitive advantage"
Growing management interest in logistics	 Trends in global trade (e.g. NAFTA) Mass customisation Environmental concerns JIT concept Information technology advancement Electronic commerce Information management systems Cloud computing E-procurement Internet of things (IoTs)

B. Global Trade Logistics

Key Knowledge Areas	Coverage
Parties involved in global trade logistics	Role of sellers, buyers, shippers, carriers, agent, customs, surveyor, financial institutions, insurance company etc.
	 Import, export, re-export processes
Modal choices relating to types	Modal characteristics
of demand and goods	Modal advantages and disadvantages for different journeys and cargo
	Multi-modalism, modal integration and interoperability

	T
Packaging, handling and	Internal and external packaging
labelling requirements	Importance of labelling and packaging
	• legal requirements for safety of people, goods and
	the environment
Incoterms	Use of Incoterms
	Different Incoterms
	Obligations and risks of buyers and sellers
D	Contractual obligation and transfer of risks
Rates, charges, tariffs and duties	Costing systems and various types of costs
	Cost-allocation and recovery
	Rate quotation schedule
	Time and distance-based charges
	Structure and aspects of setting rates and charges
	such as trade unions, shippers' councils,
	government inventions etc.
	 Tariffs setting and authorities, and awareness of
	anti-trust laws
	Taxes and duties as a source pf government
D (1)	income or an economic tool
Documentation	• Function of main documents used in national and
	international commerce
	Transport documents, financial document,
	insurance documents and official documents such
	as Certificate of Origin
	Importance of various transport documents and
	the implications on the risk and obligation of
	various parties
	The use of financial documents such as Letter of
	Credit, Collection Instruction, Bill of Exchange
	etc.
	Documents used in insurance claims
	• Roles of various government departments and the
	use of official documents
Freight insurance	Goods-in-transit (GIT) insurance requirements
	Convention on Contract for the International
	Carriage of Goods by Road
	Incoterms and insurance arrangement
Customs processes	Requirements for customs control, simplified
- F	procedures, pre-entry, and non-statutory
	procedure procedure
	1
	Licensing and quotas
	Bonded warehouse, open and closed bonded
	systems, free trade zones
	• Customs tariff, duties and taxes
	Authorised Economic Operators
International journey planning	Intermodal transport operations
<i>J J</i> 1	Containerised cargo
	- Committeed on 50

	Accompanied and unaccompanied movements
Information needs	• Role of information
	• Types of information relating to drivers, vehicles,
	loads, transport modes and customers
Cargo Security	Trends of managing cargo security
	• International, national and business levels
	 Measures to enhance cargo security
	 Cargo security schemes and programmes
	• UN regulations and requirements

C. Movement of Goods

C. Movement of Goods		
Key Knowledge Areas	Coverage	
Goods to be moved	 How characteristics of goods impact their handling Types of goods Weight and Dimensions Transit regulations Legislative controls Handling methods Safety and security needs 	
Origins, destination and routes	 Sources and destination World trade flow patterns Movement for retailing Collection and delivery Route planning and scheduling Basic concepts and techniques IT-based solutions Online multi-modal routing 	
Modes of Transport	 Suitability of modes Unit of carriage Modal nodes Ports / terminals Airports Road transport hubs Transport techniques and practices Intra-modal Intermodal Combined transport 	
Goods Movement	 Types of goods and facilities required Capacity constraints Planning of the shipment of goods Various types of controls Documentation involved Processes and constraints Information flow and exchange Third parties involved 	
Fleet management	 Elements of fleet management Measures on enhancing productivity of fleet 	

		management
	•	Green issues on fleet management and freight
		movements
	•	Measures to reduce carbon footprints
Shipping dangerous goods (DGs)	•	Characteristics and classifications of DGs
	•	Packaging, labelling and documentation
	•	Segregation and handling of DGs
	•	Legal framework and requirements
	•	IATA, IMDG and legal requirements
	•	Considerations on handling hazardous materials
		and DGs
	•	Awareness of potential DGs

D. Managing the Inbound Logistics and Purchasing in the Organisation

D. Managing the Inbound Logistics and Purchasing in the Organisation		
Key Knowledge Areas	Coverage	
Growing importance of inbound	Globalisation	
logistics	Demographic forces	
	 Information and communications 	
	• Cost saving (excess production)	
	Risk reduction	
	Leveraging resources	
Inbound logistics activities	Customer service	
	Transport	
	Inventory management	
	Warehousing and storage	
	Maintenance	
	Information management	
	Salvage and waste disposal	
	 Production 	
Purchasing	Goals of purchasing	
	Purchasing tasks	
	 Supplier selection 	
	 Quality management 	
	 Forward buying 	
	 Interaction with other corporate departments 	
	Improving purchasing productivity	
Management techniques for	Top management commitment	
improving materials	ABC analysis	
management	• Improved performance of other logistics activities	
	Improved demand forecasting	
	Inventory management software	

E. Managing Outbound Logistics

Key Knowledge Areas	Coverage
Retail Market	 Control over secondary distribution
	 Restructuring of retailer's logistics systems
	 Quick response

	 Rationalisation of primary distribution Supply chain management Efficient consumer response (ECR) Recycling / reuse of packaging material and handling material
Distribution Strategy and	 Formulating logistics strategies
Network	 Integrating the logistics channels
Role of third party logistics	 Cost reduction through specialisation
providers	Joint synergy
	 Increased information to support planning
	 Customer service enhancement
	 Reduced or shared risks
	Shared creativity
	Gain competitive advantage
	• Risk associated with 3PL in partner relationships

F. Customer Care and Service Quality

Key Knowledge Areas	Coverage
Customer services	 Service sector organisation Generic features Specific issues related to transport / logistics organisations Develop customer focus Develop customer service culture Internal and external customers
Service quality	 Understanding quality Developing and maintaining quality Conformance and performance quality systems Setting quality standards Internal and external approaches Balancing organisational and customer requirements Competitor analysis Developing and using relevant performance indicators Total Quality Management Methods of analysis Process-Flow-charts Cause and effect analysis Failure mode analysis
Management Information Systems	 Roles and functions Types of management information Internal and external sources Information gathering methods Use of information technology Role of communication in customer care
Benchmarking	Basic definition and types of benchmarkingAims and benefits

	•	Stages of the process
Administrative, financial and	•	Importance of records
legal requirements	•	Costing different elements of quality management
	•	Data protection and regulation concerning the
		maintenance of security
	•	Client and commercial confidentiality

G. Organising for Logistics Effectiveness

Key Knowledge Areas	Coverage
Components of an optimal	Structure and technology
logistics organisation	Organisational characteristics
	Environmental characteristics
	Employee characteristics
	Managerial policies and practices
Improving logistics	Strategic goal settings
organisational effectiveness	Resource acquisition and utilisation
	Performance, environment, and communication
	processes
	Leadership and decision making
	Organisation, adaptation and innovation
Developing an optimal logistics	Corporate strategy and objectives
organisation	Compatible with corporate structure
	Accountability of logistics executive
	Management styles
	Availability of support systems
	Plan for human resources allocation
Measuring the effectiveness of a	Cost-to-sales ratios
logistics organisation	Predetermined standards
	Logistics management personnel
	 Line management ability
	 Problem-solving ability
	 Project management ability
	360 degree evaluation
Towards the "best" organisation	Logistics activities and corporate objectives
structure	Corporate size and structure
	Determination of functional responsibilities
	Flexibility and agility

*Core Reading*Bowersox, D., Closs, D. and Cooper M.B. (2024). *Supply Chain and Logistics Management*, 6th ed. McGraw Hill, US.

Gourdin, K. (2006). *Global Logistics Management: a competitive advantage for the 21st Century*, 2nd ed. Wiley-Blackwell, Oxford.

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Advanced Level

Logistics Management Stream

AL 7: Warehousing and Materials Handling

Synopsis

This subject presents the fundamental warehouse management knowledge required of practitioners in logistics and storage and distribution related industries. It covers the role of warehouses and how warehouse management fits into the logistics operations of a firm. The key elements include facility development, warehouses, operations, materials handling, packaging, and its enhancing technology.

The subject aims to provide an understanding and build competence for those studying these key elements of warehouse management that are essential to both commercial and non-commercial organisations.

Outline of Subject Content

- A. Role of Warehousing in Logistics Management
- B. Facility Development
- C. Warehouse Operations
- D. Materials Handling Equipment and Packaging
- E. Enabling Technology for Warehouse Management

Standard of Knowledge and Competence

A. Role of Warehousing in Logistics Management

The Candidate has to demonstrate the knowledge of:

- Role of warehouses in Logistics Management
- Basic operations of warehouses
- Functions and importance of warehousing

The Candidate should be able to:

- Describe the operations of a warehouse
- Identify the uses of various types of warehouse
- Decide on whether to develop "in-house" or "contract out" warehousing
- Determine the needs for storage

B. Facility Development

The Candidate has to demonstrate the knowledge of:

- Concepts and theories on location choice
- Factors affecting the size, number and location of warehouses

The Candidate should be able to:

- Decide the location and size of a warehouse
- Formulate strategies for locating a warehouse
- Design the basic storage system in a warehouse

C. Warehouse Operations

The Candidate has to demonstrate the knowledge of:

- Various activities in warehouse operations
- Various systems for item picking in warehouses
- Principles in receiving and put-away
- Requirements on cargo security

The Candidate should be able to:

- Benchmark the operations of a warehouse
- Determine the uses of different picking systems
- Evaluate the choice of equipment to be used in warehouse operations
- Design work study processes for warehouse operations
- Discuss the fulfilment of the requirements of warehouse security for various stakeholders

D. Materials Handling Equipment and Packaging

The Candidate has to demonstrate the knowledge of:

- Types of equipment for materials handling
- Factors affecting package design
- Marketing and logistics functions of packaging

The Candidate should be able to:

- Decide on whether to use manual or automated systems
- Relate the functions of packaging to logistics operations
- Determine suitable systems and equipment for materials handling

E. Enabling Technology for Warehouse Management

The Candidate has to demonstrate the knowledge of the:

- Functions and forms of various enabling technologies for warehouse management
- Components and functions of a Warehouse Management System (WMS)
- Considerations of using WMS

The Candidate should be able to:

• Determine the form of acquiring the required technology

- Comment on the suitability of various types of enabling technologies for warehouse management
- Evaluate the impact of applying Information Technologies for warehouse operations

Key Knowledge Areas

A. The Role of Warehousing in Logistics Management

Key Knowledge Areas	Coverage
Nature and importance of	Definition
warehousing	 Warehousing and distribution centres
	Warehousing tasks
	Warehousing functions
Reasons for storage	Transport-production cost reduction
	 Coordination of supply and demand
	Production needs
	Marketing considerations
Uses of warehouses	Holding stock/goods
	 Consolidation
	Break-bulk
	• Mixing
Types of warehouses	Private warehouses
	Public warehouses
	Cross-docking warehouses
	Contract warehouses

B. Facility Development

B. Facility Development	
Key Knowledge Areas	Coverage
Size and number of warehouses	• Factors affecting warehouse size and number of
	warehouses
	• Warehouse size and materials handling equipment
	 Demand and warehouse size
Location analysis	Market-positioned warehouses
	 Production-positioned warehouses
	 Intermediately-positioned warehouses
	Various Important location models:
	➤ Von Thunen's model
	Weber's model
	➤ Hoover's model
	Greenhunt's model
	• Site Selection Approaches:
	Center-of-Gravity approach
	Schmenner's eight-step approach
Warehouse layout and design	Warehouse design principles
	 Productive and non-productive areas
	Randomised storage
	Dedicated storage

Warehouse redesign

C. Warehouse Operations

Key Knowledge Areas	Coverage
Monitoring warehouse	Warehouse activity profiling
operations	Measuring and benchmarking warehouse
	performance
Receiving and put-away	Receiving
principles	• Put-away
Pallet storage and retrieval	Pallet storage systems
systems	Pallet retrieval systems
Case picking system	Pick face palletising systems
	Downstream palletising
	Direct loading systems
	Case picking systems selection
Small item picking systems	Picker-to-stock systems
	Stock-to-picker systems
	Automated item dispensing machines
	Broken case picking systems comparison and
	selection
Order picking operations	Issue pack optimisation
	Pick from storage
	Pick task simplification
	Order batching
	Slotting optimisation
	Pick sequencing
Utilising and shipping	Container optimisation
	Container loading and void filling
	Weight checking
	Automated, direct loading
	Dock management
Warehouse workforce design	Safety and ergonomic training
	Time standards, incentives, and personnel
	schedule
	Optimal management-operator ratios
	Cross-training
Warehouse security	Warehouse security – supply chain security,
-	TAPA certification
	• Requirements by other authorities such as
	customs, civil aviation department

D. Materials Handling Equipment and Packaging

b. Materials Handling Eq	urbinent und i dekuging					
Key Knowledge Areas	Coverage					
Manual systems	Storage and order-picking equipment					
	Storage racks					
	Bin shelving systems					
	Modular storage					

	Transport and storage equipment			
Automated systems	Automated storage and order-picking equipment			
	Carousels (horizontal and vertical)			
	• Automated guided vehicle (AGV) systems			
	• Robots			
	Shipping automation			
	Computerised documentation			
Functions of packaging	Marketing functions			
	• Logistics functions: containment, protection,			
	apportionment, utilisation, convenience, and			
	communication			
Package design	Factors influencing package design			
	Packaging and logistics cost trade-offs			

E. Enabling Technology for Warehouse Management

E. Enabling Technology for W	arenouse Management
Key Knowledge Areas	Coverage
Warehouse technology	 Warehouse management System (WMS) Radio Frequency Identification (RFID) Bar-code technology and label generation equipment Wireless communication inside warehouses Electronic data interchange (EDI) Transportation Management Systems (TMS) Interface to Enterprise Resources Planning (ERP) systems The warehouse of the future
WMS Components	 General requirements Inventory location and management requirements Receiving requirements Put-away requirements Order management requirements Replenishment requirements Picking requirements Labour management requirements Shipping requirements Work flow management
WMS justification, selection and implementation	 WMS and efficiency enhancement WMS buy versus build decision issues WMS impacts analysis WMS implementation

Core Reading

Frazelle, E. (2016). World-Class Warehousing and Materials Handling. 2nd ed, McGraw Hill, US.

Richards, G. (2018). Warehouse Management: A Complete Guide to Improving Efficiency

and Minimising Costs in Modern Warehouse, 3rd ed. Kogan Page, UK.

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Jeron, P. van den Berg (2007). *Integral Warehouse Management: The Next Generation in Transparency, Collaboration and Warehouse Management Systems*. Management Outlook Publishing, Netherlands.

Liu, H. (2014). Warehouse and Distribution Centre. Design Media Publishing Limited

Appendix M Summary of Structured and Unstructured CPD Activities

The Structured CPD Activities:

Items	Activities	Hours	Points
a	Attendance at conferences, seminars of professional bodies;	Every 2 hours	10, maximum 200 points
b	Distance learning with feedback or some form of assessment;	Every 2 hours	10, maximum 200 points
С	Studying for a professional qualification;	Every 2 hours	10, maximum 200 points
d	Undertaking research;	Every 2 hours	10, maximum 200 points
е	Attendance at job related short courses;	Every 2 hours	10, maximum 100 points
f	Teaching and making presentations (repeated presentations of the course should not be considered for this purpose);	Every 1 hour	20
g	Writing of technical or professional articles, papers or books;	Each article or paper; Each book	100; 200
h	Undertaking technical research for a new piece of work;	Every 2 hours	10
i	Participating in seminar organised by CILTHK with similar nature in logistics and transport industry;	Whole session	40
j	Participating in other activities (including site visit) recognised by E&T for CPD purposes.	Half day; Whole day	40; 80

The Unstructured CPD Activities:

Items	Activities	Hours	Points
a	Reading of the technical and professional literature. Reading of recognised professional journals and magazines may be considered as part of CPD. Individuals may have to decide to what extent reading particular items constitutes CPD, and to record these specific items on their CPD form and it is up to E&T Committee to consider whether the activities constitute CPD. Mere subscription to a publication does not constitute CPD.	Every 1 hour	10, maximum 40 points in each activity
b	Individual home study. Viewing of videos, television programmes, the use of audiotapes, participation in computer based learning programmes, distance learning or any alternative form of learning where there is no interaction with other individuals, and no assessment (in the form of a further qualification) may also constitute CPD. Individuals are required to record these specific items on their CPD forms and it is up to E&T Committee to consider whether the activities constitute CPD.	Every 2 hours	10, maximum 40 points in this category
С	Serving as a member of committees and working groups of a professional body.	Every 2 hours	10
d	Coaching and mentoring	Every 1 hour	10

Appendix N Continuing Professional Development Records

Continuing Professional Development (CPD) Records

CPD Period: Full Name: Contact No.: Email:			CPD Points required: Membership No.: Recent Job Nature: (Please tick the appropriate box)		mum requirement)		
		Recent J			Transport Logistics		
	_						
Strue	ctured CPD activit	ties (please refer to the Membership Handboo	ok 5.2)				
No	Date of Activity	Title of Activity	Organise	r	*Hours	# Supporting Document No.	CPD Points

Remarks

^{*} Members must fill in number(s) of hour spent on the fore mentioned activity if no CPD points were accredited by CILTHK.

[#] Members must fill in the supporting document no. as any copies of supporting records and/or documentary evidences were requested by the CPD panel.

Stru	Structured CPD activities (please refer to the Membership Handbook 5.2)							
No	Date of Activity	Title of Activity	Organiser	*Hours	# Supporting Document No.	CPD Points		
	Total Structured CPD Points:							

Please use supplementary sheet if necessary.

Remarks

^{*} Members must fill in number(s) of hour spent on the fore mentioned activity if no CPD points were accredited by CILTHK.

[#] Members must fill in the supporting document no. as any copies of supporting records and/or documentary evidences were requested by the CPD panel.

Unst	Unstructured CPD activities (please refer to the Membership Handbook 5.2)						
No	Date of Activity	Title of Activity	Organiser	*Hours	# Supporting Document No.	CPD Points	
	Total Unstructured CPD Points:						
	Total Structured + Unstructured CPD Points:						

Please use supplementary sheet if necessary.

Remarks

^{*} Members must fill in number(s) of hour spent on the fore mentioned activity if no CPD points were accredited by CILTHK.

[#] Members must fill in the supporting document no. as any copies of supporting records and/or documentary evidences were requested by the CPD panel.

Appendix O Application for Continuing Professional Development (CPD) Accreditation

Programme Title						
	Course	Sem	inar	☐ Conferen	ice	
Programme Type	☐ Briefing Session			Group Di	iscussion	
Trogramme Type	Other, please spec	ify			<u>.</u>	
Programme	Sole Organised			Jointly Organ	ised, please sp	ecified the number
Structure				of organisers	-	
(1) Name of						
Association/						
Institute/						
Institution/Society						
Address						
Name of Contact						
Telephone		Fax		E-	mail	
(2) Name of				L		
Association/						
Institute/						
Institution/Society						
Address						
Name of Contact						
Telephone		Fax		E-	mail	
(3) Name of				L		
Association/						
Institute/						
Institution/Society						
Address						
Name of Contact						
Telephone		Fax		E-	mail	
Duration (please me	entioned clearly in			'	•	
number of hours)	,					
Holding Date(s)						
Target						
Participants						
Quota of						
Participations						
Programme						
Objective						
Objective						
Information to be p	rovided					
				Yes	No]
Programme descrip	tive document]
	information and CVs					
Registration requirements						

Is there any concession offered to CILTHK members participating the programme? If yes, how many discount percentage will be given?	
Submitted By	Acknowledged By
Title: Place: Date:	Administration Division of CILTHK Date:
For CILTHK Office Use Only	
Assessment CPD Points Awarded Comments	
Approved By Chairman of CPD Programme Date:	