

## ATTACHMENT 2

### MATRIX ON LINK BETWEEN CORE CURRICULUM AND COMPETENCY REQUIRED FOR LOGISTICS AND SUPPLY CHAIN

No.	Core Curriculum	Expected General Skill / Competency	Labour / Divisions	Professions / Job Titles at this level of Competency
<b>Basic Level</b>				
1	Fundamental of Logistics and Supply Management	<ul style="list-style-type: none"> <li>• Understand the evolution of logistics and supply chain;</li> <li>• Able to identify the general structure of supply chain with four conceptual perspective on supply Chain Management against Logistics performance including definition of supply chain and Logistics management.</li> </ul>	<ul style="list-style-type: none"> <li>• Logistics / Forwarders &amp; Supply Chain staff</li> <li>• Supply Chain, Transport, Logistics and Supply Chain Service Providers</li> <li>• All staff/ at Logistics Service Providers, all Division of Supply Chain functional groups</li> <li>• Supply Chain Operations</li> </ul>	<ul style="list-style-type: none"> <li>• All Logistic/forwarders staff</li> <li>• New Entrants to the Industry.</li> <li>• Apprenticeships</li> <li>• Documentations and Operations Staff</li> <li>• Basic requirement for all logistics workforce</li> <li>• Logistics &amp; Supply Chain Manager/Executive</li> </ul>
2	Transport Operation Management	<ul style="list-style-type: none"> <li>• Understand the concept of transport operation management</li> <li>• Understand the historical background of operations management</li> <li>• Able to examine the principles of operations management in transport</li> <li>• Understand the role of transport operation management in logistics</li> <li>• Understand the principles for effective transport operation management and examination of</li> </ul>	<ul style="list-style-type: none"> <li>• Senior staff at Operation Distribution Planning</li> <li>• Transport, Logistics and Supply Chain Service Providers</li> <li>• Officers and senior staff at Operation, Distribution Planning</li> <li>• Manage Distribution &amp; Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Forwarder/Logistics staff included Warehouse manager</li> <li>• All logistics, Transport and Supply Chain Service Providers' workforce</li> <li>• Transport &amp; Distribution Manager/Executive</li> <li>• Basic requirement for all logistics workforce</li> </ul>

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		<p>specific principle in operation management</p> <ul style="list-style-type: none"> <li>• Understand role and functions of transport management in logistics including impact of transport operation in multimodal transport.</li> </ul>		
3	Risks Management (Including International Conventions)	<ul style="list-style-type: none"> <li>• Key concepts of risk identification, risk measurement.</li> <li>• Equip a sound knowledge of legal liabilities, international carriage of goods, cargo insurance and liability insurance and claims handling procedures.</li> </ul>	<ul style="list-style-type: none"> <li>• Operation/Sales/Finance / Management</li> <li>• Senior staff at R&amp;D, Sales, Planing, Operation, Administration &amp; Finance, Contract Management</li> <li>• Contract Accounting</li> </ul>	<ul style="list-style-type: none"> <li>• Forwarder/Logistics staff &amp; Finance manager</li> <li>• Business Development Executives</li> <li>• Sales, Operations, Finance, and Contracts Executives</li> <li>• Risk Management &amp; Insurance Manager/Executive</li> <li>• R&amp;D Executives</li> <li>• Sales Executives</li> <li>• Planning Officers, Operation Managers,</li> <li>• Admin/ Finance executives &amp; managers, Contract Managers</li> </ul>

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4	Trade Management (Including UCP 600 & INCOTERM 2010 for Logistics Service Providers)	<ul style="list-style-type: none"> <li>• Able to set up trade management for the company;</li> <li>• Understand the advantage of trade management solution;</li> <li>• Prepare sales forecast and budget (including trade management life cycles and process and how to implement for administration, customer profile and record, system and procedure, product services and price strategy and promotion with the case study);</li> <li>• Able to advise the most appropriate documentary credit in setting international commercial transaction.</li> <li>• Define INCOTERMS on the obligation between seller and buyer;</li> <li>• Able to inform seller and buyer of the appropriate term when making international business.</li> </ul>	<ul style="list-style-type: none"> <li>• Demand Planning,</li> <li>• Sales, Purchasing/ Operation/Finance in Supply Chain, Logistic/ forwarder</li>   <li>• Importers' Exporters' Manufacturing</li> <li>• Industry</li>   <li>• Transport and Logistics Industry</li>   <li>• Supply Chain Practitioners</li> <li>• Senior staff at R&amp;D, Demand Planning,</li> <li>• Purchasing, Operation, Sales, and Admin-Finance</li> <li>• Sales, Procurement</li> </ul>	<ul style="list-style-type: none"> <li>• Sales/Operation/Finance forwarder/Logistics staff/Buyer/Seller</li> <li>• Operations and Documentation Staff</li>   <li>• Supply Chain Executives</li> <li>• International Trade &amp; Procurement Manager/Executive</li> <li>• R&amp;D Executives</li> <li>• Sales Executives</li> <li>• Planning Officers, Operation Managers,</li> <li>• Admin/ Finance executives &amp; managers, Contract Managers</li> </ul>
5	Cargo Packaging and unitization	<ul style="list-style-type: none"> <li>• Understand why the need of unitization of goods for transport is important</li> <li>• Know the function of following:               <ol style="list-style-type: none"> <li>i) Packages and different marks,</li> <li>ii) The application of marking and type of markings;</li> <li>iii) Basic methodology of packing goods;</li> <li>iv) Type of packing;</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• Cargo owner, Packaging,</li> <li>• Dispatcher, Buyer , Forwarder/Logistics staff</li> <li>• Warehousing and Logistics Service Providers</li>   <li>• Transport and Logistics Service Providers</li> <li>• Packaging,</li> </ul>	<ul style="list-style-type: none"> <li>• Supply chain/forwarder/Logistics staff</li> <li>• Warehousing and Operations Staff</li> <li>• Cargo Packaging and Packing Executive</li> <li>• Site operators,</li> <li>• Team Leaders</li> </ul>

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		v) Type of containers; and vi) Proper usage of container including methodology of handling cargo and basic calculation to load goods inside container.	<ul style="list-style-type: none"> <li>• Dispatcher</li> <li>• Project Logistics</li> <li>• Warehousing, Outbound</li> </ul>	
<b>Intermediate Level</b>				
6	Multimodal Transport Law and Operations	<ul style="list-style-type: none"> <li>• Understand the important issues concerning with the Multimodal Transport</li> <li>• Define the role of Multimodal Transport Operator</li> <li>• Learn how to organize Multimodal Transport Operation</li> <li>• Understand Law and Regulation of Multimodal Transport which involves National Law and legal procedures.</li> </ul>	<ul style="list-style-type: none"> <li>• Operation/Sales Forwarder/Logistics staff</li> <li>• Transport and Logistics Service Providers</li> <li>• Operation, Distribution, Administration, Contract Management</li> <li>• Multimodal Transport Operations</li> </ul>	<ul style="list-style-type: none"> <li>• Senior, Management of forwarder/Logistics staff/Supply chain</li> <li>• Operations and Documentation Staff and Executives</li> <li>• Executive staff and Managers</li> </ul>
7	Transport Logistics & Supply Chain Security / Transport Corridor	<ul style="list-style-type: none"> <li>• Understand and explain the nature and forms of transport corridors, its affect to trading and development in the region</li> <li>• Able to design and conduct evaluation of supply chain security management</li> <li>• Have know-how and can perform advanced skills in transport network development, implementation of total Supply Chain Security system.</li> </ul>	<ul style="list-style-type: none"> <li>• Operation/ Senior Forwarder/Logistics staff</li> <li>• Supply chain security</li> <li>• R&amp;D, Planning,</li> <li>• Operation, Distribution, Administration</li> <li>• Transport Network Architect</li> </ul>	<ul style="list-style-type: none"> <li>• Senior Operation, Management of Forwarder/Logistics staff/Supply chain</li> <li>• Logistics &amp; Supply Chain Manager/Executive</li> <li>• Executive staff,</li> <li>• Managers,</li> <li>• Directors</li> </ul>
8	Warehouse Management	<ul style="list-style-type: none"> <li>• Critically reflect on the strategic importance of the role and functions of the warehouse as a critical link in the supply chain.</li> </ul>	<ul style="list-style-type: none"> <li>• Operation manager &amp; Warehouse staffs</li> <li>• Warehouse</li> </ul>	<ul style="list-style-type: none"> <li>• Senior, Management of Forwarder/Logistics staff/Supply chain</li> <li>• Warehousemen</li> </ul>

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		<ul style="list-style-type: none"> <li>• Understand the distribution of goods from producers to end customers.</li> <li>• Define the role of a warehouse manager.</li> <li>• Learn how to organize a warehouse and manage its activities including the use of IS &amp; IT in fulfilling customers' requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• Warehouse, Distribution Centre Operation</li> </ul>	<ul style="list-style-type: none"> <li>• Documentation Staff and Executives</li> <li>• Warehouse Manager/Executive</li> </ul>
9	Information Technology in Freight Transport & Supply Chain Management	<ul style="list-style-type: none"> <li>• Able to assist the company to make a plan to achieve company goal, to obtain maximum profit and minimize risk</li> <li>• Understand a basic knowledge and able to advise for NSW (National Single Window)</li> <li>• Able to advise the company or client about the Cloud Computing resource</li> <li>• Understand a basic knowledge and able to advise for ECTS (Electronic Cargo Tracking System)</li> </ul>	<ul style="list-style-type: none"> <li>• IT/ Operation/Sales</li> <li>• IT applications integrator</li> </ul>	<ul style="list-style-type: none"> <li>• IT / Operation and Sales staff included Management</li> <li>• Warehousemen</li> <li>• Documentation Staff and Executives</li> <li>• IT system analyst in Logistics</li> <li>• Managers,</li> <li>• Directors</li> </ul>

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10	Project Transportation	<ul style="list-style-type: none"> <li>• Understand the concept of cargo transportation;</li> <li>• Able to size up the project and make necessary preparations to undertake the job;</li> <li>• Able to group the project into coherent segments for the purpose of monitoring and control;</li> <li>• Able to decide on the Intermodal of land transport over large land-mass or distances</li> <li>• Able to decide on the types and variety of equipment to be deployed</li> <li>• Able to work out the costs of such project;</li> <li>• Able to take necessary precautions on safety and related practices</li> <li>• Understand new concepts and air-cargo availability.</li> </ul>	<ul style="list-style-type: none"> <li>• Project manager / Sales and Distribution Planning Senior, Management of forwarder/Logistics staff</li> <li>• Project Logistics,</li> <li>• Planning, Operation</li> <li>• Project Planning</li> </ul>	<ul style="list-style-type: none"> <li>• Senior, Management of forwarder/Logistics staff/Supply chain</li> <li>• Operations Managers and Executives</li> <li>• Contracts Review Officers</li> <li>• Project Managers</li> <li>• Transport &amp; Distribution Manager/Executive</li> <li>• Executive staff,</li> <li>• Managers,</li> <li>• Directors</li> </ul>
<b>Advanced Level</b>				
11	Cross Border Transport Operation	<ul style="list-style-type: none"> <li>• Understand the ASEAN Vision in Transport Policy and direction</li> <li>• Understand how ASEAN Cross border Transport operate under AFAFGIT</li> <li>• Understand the major different between GMS and ASEAN cross border transport</li> <li>• Understand the convention of carriage of goods by Road act and able to identify important issue.</li> </ul>	<ul style="list-style-type: none"> <li>• Project manager, planning, operation and Distribution</li> <li>• International Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Executive staffs and Manager</li> <li>• International Transport Manager/Executive</li> </ul>

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12	Dangerous Goods Handling (All Modes)	<ul style="list-style-type: none"> <li>• To understand the basic knowledge on hazard identification, basic terms and definition, basic classification, relevant principle methods of basic classifications.</li> <li>• To understand how people are exposed to chemicals through several routes of exposure.</li> <li>• To understand basic concepts of dose response relationship, effects of chemicals to human and factors determining the effects</li> <li>• To understand flammability concept and elements of fire</li> <li>• To understand the UN Transport regulations, its history and basis as model regulations for international classification system for other modes of transport.</li> <li>• To understand the linkage into the ASEAN Protocol 9 framework on the international carriage of dangerous goods in ASEAN.</li> <li>• To understand 9 classes of dangerous goods classification and other relevant basic terms such as Class, Division,</li> </ul>	<ul style="list-style-type: none"> <li>• Operation/ Management/</li> <li>• Senior forwarder/Logistics staff/Supply chain</li> </ul> <p style="text-align: center;">of</p>	<ul style="list-style-type: none"> <li>• Senior staff in Operation, Management of forwarder/Logistics staff/Supply chain</li> <li>• Operations and Documentation Staff &amp; Executives</li> </ul>

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		<p>Packaging Group (PG), UN Number (UNNO) and Proper Shipping Names (PSN).</p> <ul style="list-style-type: none"> <li>• To understand basic hazard communication such as Labelling requirements, Dangerous Goods Declaration (DGD) or Multi-modal Dangerous Goods Form.</li> <li>• To understand the basic requirement of packaging as well as required DG labels on packaging.</li> <li>• To understand UN standard of packaging code as well as highlight the possible combination of all these codes.</li> <li>• To understand different level of packaging strengths in compliance with the packing group</li> <li>• To illustrate some examples of UN packaging.</li> <li>• To elaborate other types of classification and labelling system</li> <li>• To understand background and history of IMDG Code and how it will be used in shipping dangerous goods by sea.</li> </ul>		



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		<ul style="list-style-type: none"> <li>• To understand background and history of IATA DGR and how it will be used in shipping dangerous goods by air.</li> <li>• To understand the new globally harmonized system of classification and labelling of chemicals (GHS) and how it will be basically implemented.</li> </ul>		
13	Marketing for Logistics	<ul style="list-style-type: none"> <li>• Understand the marketing for the logistic service</li> <li>• Be able to do the marketing plan for their companies.</li> <li>• Be able to do the measurement of the marketing plan and the real implementation, if it is successful or not.</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing,</li> <li>• Sales staffs</li> </ul>	<ul style="list-style-type: none"> <li>• Senior, Management of forwarder/Logistics staff</li> <li>• Executive staff and Managers</li> <li>• Marketing Manager/Executive</li> </ul>
14	Logistics Planning and Analysis	<ul style="list-style-type: none"> <li>• Understand the role &amp; functions of logistics network and its entities.</li> <li>• Identify, list and explain the four functional areas of logistics i.e. purchasing, inventory, warehousing and transport.</li> <li>• Appreciate how information is used to manage logistics.</li> <li>• Understand the role of KPIs and how these are used to measure and drive customer service.</li> </ul>	<ul style="list-style-type: none"> <li>• Demand Planning,</li> <li>• Distribution Planning</li> <li>• Demand Forecast</li> </ul>	<ul style="list-style-type: none"> <li>• Specialists and Senior manager, Management of forwarder/Logistics staff/Supply chain</li> <li>• Supply Chain Practioners</li> <li>• Transport and Logistics Staff and Executives</li> <li>• Logistics Planning and Distribution Manager/Executive</li> <li>• Logistics Specialists,</li> <li>• Managers,</li> </ul>

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				<ul style="list-style-type: none"> <li>• Directors</li> </ul>
15	Supply Chain Collaboration & Logistics Solutions	<ul style="list-style-type: none"> <li>• Able to use Strategic Alliance Model to explain collaboration between supply chain entities.</li> <li>• Understand that collaboration is the mechanism necessary to implement supply chain initiatives.</li> <li>• Able to examine and explain definition, advantages &amp; disadvantages of supply chain initiatives JIT, MRP, CPFR and VMI.</li> </ul>	<ul style="list-style-type: none"> <li>• Management and Board of Director of forwarder/Logistics staff/Supply chain</li> <li>• Procurement, Supply Chain Optimisation</li> </ul>	<ul style="list-style-type: none"> <li>• Supply Chain director and logistics services provider Management</li> <li>• Business Development Executives</li> <li>• Managers and Executives</li> <li>• Logistics and Supply chain Manager</li> <li>• Supply chain Specialists, Logistics Managers,</li> <li>• Directors, CEOs</li> </ul>