

HONG KONG IGDS - MSC MODULE OUTLINE

Subject Title	Storage and Warehousing Techniques (SWT)	
	<i>HK PolyU</i>	<i>WarwickU</i>
Subject Code	ISE5765	WM9F3-15
Credit Value	3	15
Level	Level 5	Taught Postgraduate Level
Pre-requisite/ Co-requisite/Exclusion	None but some preliminary reading of storage and warehousing techniques would be beneficial.	
Introduction	A well-managed warehouse is recognised as a potential major source of competitive advantage as opposed to just another source of cost within the supply chain. To achieve this competitive advantage, it is important to choose the right type of operation, processes, equipment and technology, and then understand and continuously improve performance through appropriate measures and controls. Staff motivation and safety are also important aspects within today's warehouse.	
Objectives	<p>No 1 To provide a thorough insight into warehouse operations, processes, equipment, technology and methods to continuously improve performance through appropriate measures and controls.</p> <p>No 2 To provide an understanding of the role of the warehouse in today's supply chain and its internal and external relationships and impact.</p>	
Intended Learning Outcomes (ILO's) (Note 1)	<p>Upon completion of the subject, participants will be able to:</p> <p>No 1 evaluate warehouse operational processes and roles for an informed judgement on warehouse functions across supply chains.</p> <p>No 2 select appropriate techniques to improve warehouse processes and operations, proposing sound recommendations and critiques about how technology, equipment and automation can be applied.</p> <p>No 3 propose and analyse the criteria required to decide on the most appropriate location for a warehouse within a supply chain and distribution network.</p> <p>No 4 determine how to resource a warehouse, including an informed analysis of the costs for space, labour and equipment.</p> <p>No 5 interpret a complex warehouse operational requirement in order to design a practical and efficient warehouse layout (as a team member).</p>	
Indicative Syllabus Topics (Note 2)	<p>No 1 The role of the warehouse in today's supply chain</p> <p>No 2 Types of warehouse operation and warehouse processes</p> <p>No 3 Warehouse operations exercise or observation</p> <p>No 4 Warehouse IT, automation and technology</p> <p>No 5 Warehouse location, layout and equipment</p> <p>No 6 Warehouse design and simulation exercise</p> <p>No 7 Warehouse costs and performance measures</p> <p>No 8 Health and safety and environmental issues</p> <p>No 9 Procurement and management of 3rd party services</p> <p>No 10 Resource planning and labour management</p> <p>No 11 The future of warehousing</p>	

<p style="text-align: center;">Teaching/Learning Methodology (Note 3)</p>	<p>No 12 Industrial exposure</p> <p>A combination of lectures and case studies are used to deliver the various topics in this module. One of these case studies runs through the complete module and is based on a real life company. This together with the other case studies and lecture material demonstrate how the various techniques are inter-related and how they apply in real life situations.</p> <p><u>Alignment between Teaching/Learning Methodologies and ILOs:</u></p> <table border="1" data-bbox="581 401 1446 579"> <thead> <tr> <th rowspan="2">Teaching/Learning Methodologies</th> <th colspan="5">Intended Subject Learning Outcomes to be assessed</th> </tr> <tr> <th>No 1</th> <th>No 2</th> <th>No 3</th> <th>No 4</th> <th>No 5</th> </tr> </thead> <tbody> <tr> <td>Lecture</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> </tr> <tr> <td>Case studies</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> </tr> </tbody> </table>	Teaching/Learning Methodologies	Intended Subject Learning Outcomes to be assessed					No 1	No 2	No 3	No 4	No 5	Lecture	√	√	√	√	√	Case studies	√	√	√	√	√										
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<p style="text-align: center;">Assessment Methods in Alignment with Intended Learning Outcomes (Note 4)</p>	<table border="1" data-bbox="581 674 1446 1104"> <thead> <tr> <th rowspan="2">Assessment Methods/Tasks</th> <th rowspan="2">% Weight</th> <th colspan="5">Intended Learning Outcomes (ILO's)</th> </tr> <tr> <th>No 1</th> <th>No 2</th> <th>No 3</th> <th>No 4</th> <th>No 5</th> </tr> </thead> <tbody> <tr> <td>1. In-module Assignment (IMA)</td> <td>40</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> </tr> <tr> <td>2. Post Module Assignment (PMA)</td> <td>60</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> </tr> <tr> <td style="text-align: center;">Total</td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes (ILO's). The PMA requires participants to apply what they have learnt in the module to their own work environment. These will embrace the ILO's albeit in different work situations.</p>	Assessment Methods/Tasks	% Weight	Intended Learning Outcomes (ILO's)					No 1	No 2	No 3	No 4	No 5	1. In-module Assignment (IMA)	40	√	√	√	√	√	2. Post Module Assignment (PMA)	60	√	√	√	√	√	Total	100					
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<p style="text-align: center;">Reading List and References</p>	<p>The list given to participants is comprehensive and embraces all the topics covered in the module. In total there are 5 references provided. They can be found in the Folder Notes given to participants at the commencement of the module.</p>																																	

Note 1: Intended Learning Outcomes

Intended learning outcomes state what students should be able to do or attain upon completion of the subject. Subject outcomes are expected to contribute to the attainment of the overall programme outcomes.

Note 2: Subject Synopsis/ Indicative Syllabus

The syllabus adequately addresses the intended learning outcomes. At the same time over-crowding of the syllabus has been avoided.

Note 3: Teaching/Learning Methodology

This section includes a brief description of the teaching and learning methods to be employed to facilitate learning, and a justification of how the methods are aligned with the intended learning outcomes of the subject.

Note 4: Assessment Method

This section includes the assessment method(s) used and its relative weighting, and indicates which of the subject intended learning outcomes that each method assesses. It also provides a brief explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.