

**Specification of Competency Standards**  
**for the Manufacturing Technology Industry**  
**Unit of Competency**

Functional Area - Procurement, Logistics Planning and Control

Title	Formulate warehouse automation solutions
Code	106508L4
Range	This unit of competency is applicable to the procurement department/ materials control departments of Manufacturing Technology Industry. Practitioners should be capable to formulate warehouse automation solutions, so as to improve the warehouse operation efficiency
Level	4
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Relevant knowledge of warehouse automation</p> <ul style="list-style-type: none"> <li>• Recognise the overall business strategies of the corporation</li> <li>• Recognise the principles of warehouse management</li> <li>• Understand the corporate electronic inventory identification and management system</li> <li>• Understand the concepts of warehouse automation</li> <li>• Understand all stages of warehouse automation, such as transferring automation, warehouse automation, and integration of warehouse automation</li> <li>• Understand the characteristics, performance and limitations of all kinds of warehouse automation, such as automated picking systems, multi-axis robots, conveyor belts and Automatic Storage/ Retrieval System</li> <li>• In-depth understanding of the warehouse operation</li> <li>• Recognise the overall business strategies of the corporation</li> <li>• Recognise the principles of warehouse management</li> <li>• Understand the corporate electronic inventory identification and management system</li> <li>• Understand the concepts of warehouse automation</li> <li>• Understand all stages of warehouse automation, such as transferring automation, warehouse automation, and integration of warehouse automation</li> <li>• Understand the characteristics, performance and limitations of all kinds of warehouse automation, such as automated picking systems, multi-axis robots, conveyor belts and Automatic Storage/ Retrieval System</li> <li>• In-depth understanding of the warehouse operation</li> </ul> <p>2. Formulate warehouse automation solutions</p> <ul style="list-style-type: none"> <li>• Detailedly analyse the situation of the existing warehouse, so as to explore the feasibility of warehouse automation</li> <li>• Analyse the feasibility of integration between electronic inventory identification and management system and warehouse automation</li> <li>• Develop different degrees of warehouse automation solutions and apply different automation technology, such as local process automation or integrated warehouse automation module, set up intelligent warehouse</li> <li>• Carry out gap analysis and cost-benefit analysis of automation solutions, make recommendations to management</li> <li>• Select appropriate suppliers and set up warehouse automation system, and lead the project team and supplier to set up the warehouse automation system</li> <li>• Develop a maintenance schedule for the warehouse automation system, and ensure an effective operation of the relevant device and equipment</li> <li>• Arrange suitable training and ensure all relevant staff are capable to operate the warehouse automation system</li> </ul>

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	<ul style="list-style-type: none"> <li>• Develop appropriate communication channels to collect staff s comments on warehouse automation system, review the effectiveness of the existing system and provide recommondations to management</li> </ul> <p>3. Professional handling of formulating warehouse automation solutions</p> <ul style="list-style-type: none"> <li>• Prevent any abuse or corruption, such as abuse/ misappropriation of corporate assets and theft</li> <li>• Ensure all contents and information of inventory are accurate</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Capable to formulate suitable warehouse automation solutions in accordance with the corporate business development</li> <li>• Capable to collect and analyse different opinions, provide applicable optimised solutions for improvement</li> </ul>
Remark	