

Specification of Competency Standards
for the Logistics Industry
Unit of Competency

Functional Area - Planning and Design of Logistics Solutions

Title	Formulate warehouse automation solutions
Code	LOCUPD604B
Range	This unit of competency is applicable to logistics service providers. Practitioners should be capable of formulating warehouse automation solutions so as to enhance the efficiency of the warehouse and business operations.
Level	6
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge of warehouse management and warehouse automation solutions</p> <ul style="list-style-type: none"> • Understand company policy, procedures, and business strategies • Understand the operations and workflows of terminal, warehouse, logistics centre and related industries • Understand the concept of quality management and continuous improvement • Understand the concepts of warehouse automation • Understand the principle of warehouse management • Possess the knowledge of safety management <p>2. Review existing warehouse operations and practices</p> <ul style="list-style-type: none"> • Review current warehouse operations and practices • Define the current quality management system and the level of compliance • Identify the current trends of warehouse automation in the logistics industry • Analyse the potential impacts of warehouse automation on organisation • Define the areas of improvement and enhancement according to the current situation • Define other resources and their utilisation <p>3. Formulate warehouse automation solutions</p> <ul style="list-style-type: none"> • Calculate the capital and budget cost and resources of warehouse automation and other future business potential and risk • Analyse the pros and cons of warehouse automation and their importance to the future business opportunities • Analyse the importance of warehouse automation on the business • Identify and analyse the feasibility of adopting warehouse automation solutions • Analyse how warehouse automation can enhance the efficiency and effectiveness of warehouse operations with reference to organisation goals, objectives and policies • Use appropriate tools to complete the planning and designing of warehouse automation solutions • Assess, select and adopt warehouse automation solutions to support warehouse operations, business strategies and policies, such as <ul style="list-style-type: none"> ○ Data capture devices (e.g. RFID readers, RF guns, voice picking, etc.,) ○ Goods handling devices (e.g. Automatic order picking systems, palletisers and robots, etc.,) ○ Automated storing devices (e.g. Carousels, automated storage and retrieval systems, etc.,) ○ Data visibility and security ○ Report irregularity, efficiency, life cycle, forecast and other measure <p>4. Assess and review warehouse automation solutions</p>

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	<ul style="list-style-type: none">• Review effectiveness of the warehouse automation solutions• Conduct cost-benefit analysis and evaluate the key cost–benefit indicators (e.g. NPV, PVB, PVC, BCR, etc.), to determine if the solutions are sound investments and feasible to implement• Provide effective recommendation for future improvement• Set up new business and operations models for the industry
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none">• Capable of analysing, and assessing the feasibility and advantages of adopting warehouse automation solutions;• Capable of selecting automation devices to support warehouse operations;• Capable of formulating warehouse automation solutions; and• Capable of assessing and reviewing warehouse automation solutions
Remark	