

Specification of Competency Standards
for the Logistics Industry
Unit of Competency

Functional Area - Planning and Design of Logistics Solutions

Title	Design warehouse layout and material flow in warehouse operations
Code	LOCUPD504B
Range	This unit of competency is applicable to logistics service providers. Practitioners should be capable of designing warehouse layout and material flow in warehouse operations. It involves responsibility for the provision of general guidance and leadership to others either individually or in teams.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge of warehouse design and material flow</p> <ul style="list-style-type: none"> • Know about the overall warehouse flow design • Understand relevant functional locations • Know about the building configuration <p>2. Compile activity relationship profile</p> <ul style="list-style-type: none"> • Identify the inter-functional and inter-processes relationships in the warehouse • Compile activity relationship profile to identify the level of importance of warehouse activities (e.g., receiving, inspection, storage, picking, and shipment staging) to suggest the location of functions and processes related to other activities in a block layout <p>3. Design warehouse layout and material flow</p> <ul style="list-style-type: none"> • Use layout design and material flow methods and techniques appropriate to design warehouse flow (e.g., U-shaped flow, straight-thru, modular-spine, or multi-story flow pattern) in accordance with plans and standard procedures • Conclude layout design and material flow analysis with available resources • Implement, monitor and adjust (if required) layout design and material flow activities based on changing circumstances • Allocate resources to material flow in accordance with material flow plan and resource availability <p>4. Conduct review in warehouse operations</p> <ul style="list-style-type: none"> • Regularly review effectiveness of warehouse layout and the efficiency of material flow • Provide recommendations for further improvements in warehouse operations
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Capable of applying knowledge of warehouse design and material flow; • Capable of compiling activity relationship profile; • Capable of designing warehouse layout and material flow; and • Capable of reviewing warehouse operations
Remark	