

**Specification of Competency Standards**  
**for the Logistics Industry**  
**Unit of Competency**

Functional Area - Planning and Design of Logistics Solutions

Title	Design warehouse capacity
Code	LOCUPD506B
Range	This unit of competency is applicable to logistics service providers. Practitioners should be capable of applying relevant knowledge of warehouse management to design warehouse sizing and capacity. All activities should be performed with reference to warehouse operating procedures, equipment and space requirements, and business plan.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge of warehouse space requirements</p> <ul style="list-style-type: none"> <li>• Understand the warehouse operations</li> <li>• Know about the warehouse capacity design</li> <li>• Understand the warehouse space requirement</li> </ul> <p>2. Compile inventory profile</p> <ul style="list-style-type: none"> <li>• Collect relevant information and data to design warehouse sizing</li> <li>• Compile the inventory profiles, such as item family inventory distribution and handling unit inventory distribution</li> </ul> <p>3. Identify space requirements</p> <ul style="list-style-type: none"> <li>• Assess the medium-term and long-term storage requirements with reference to the company's business plan</li> <li>• Assess product type, picking frequencies, handling characteristics, holding periods, fragility, weight, value, and quantity to consider amount and type of storage</li> <li>• Assess facility to determine the stock handling and holding requirements</li> <li>• Calculate volume requirements to ensure that ongoing stock holding needs are met</li> <li>• Calculate and use the total space requirement to formulate space utilisation plan</li> </ul> <p>4. Design warehouse capacity</p> <ul style="list-style-type: none"> <li>• Plan warehouse zones with reference to equipment operations and warehouse capacity requirements</li> <li>• Conduct facility assessment to enhance the space utilisation</li> <li>• Undertake warehouse zones positioning with reference to the data collected from the planning process</li> <li>• Cater for provision of maintenance and cleaning</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Capable of applying knowledge of warehouse space requirements;</li> <li>• Capable of compiling inventory profile; and</li> <li>• Capable of designing warehouse capacity</li> </ul>
Remark	