Specification of Competency Standards for the Logistics Industry
Unit of Competency

1. Title	Apply simulation technique to test efficiency of operation
2. Code	LOCUOM408A
3. Range	This unit of competency is applicable to sea freight, air freight and express operators. Practitioners should be capable to apply simulation technique to analyze the flow of large-scale cargo operation and use the result of analysis to improve the flow of cargo operation.
4. Level	4
5. Credit	9 （for reference only）
6. Competency	

6. Competency		Performance Requirements
	6.1 Knowledge of simulation technique for testing	♦ Make plans for various long-term repetitive logistics procedures and compare the efficiency and costs of different operation modes so as to optimize the logistics procedures ♦ Understand the standard logistics mode of the company, such as the procedures of loading, access and transport ♦ Master the concepts of statistics, probability and distribution of various kinds of data ♦ Understand the latest mode of operation of the industry and its major advantages and disadvantages ♦ Master the concepts, theories and techniques of Workflow Analysis and Work Study ♦ Understand software of modelling analysis in the market

		◆ Know how to judge and use the result generated from the software of modelling analysis
	6.2 Apply simulation technique to test operation	◆ Formulate the course, sequence and time needed for existing or proposed logistics procedures ◆ Divide the logistics process into procedures for critical path analysis or other operational analysis ◆ Use statistical methods to find out necessary parameters or input data ◆ Make logical assumption and use suitable mathematical modelling and random method ◆ Use suitable computer software for modelling operation ◆ Try modelling operation based on different assumptions or mathematical modelling types ◆ Use the result of simulation operation to analyze whether the efficiency has been improved ◆ Compile reports to illustrate the result of analysis
7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: (I) Capable to work out simulation operation for complex logistics procedures; (ii) Capable to use computer software for simulation operation and analyze the result; and (iii) Capable to compile reports to illustrate the result of analysis.	
8. Remarks		