

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

Functional Area - Smart Logistics

Title	Formulate strategies for the application of electronic cargo identification technologies
Code	LOCUEL501B
Range	This unit of competency is applicable to relevant units in the logistics industry. Practitioners should be capable to formulate suitable strategies for the application of electronic cargo identification technologies.
Level	5
Credit	9 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess the knowledge relevant to electronic cargo identification technologies</p> <ul style="list-style-type: none"> <li>• Understand popular electronic cargo identification technologies in the logistics industry, including: <ul style="list-style-type: none"> <li>○ Electronic product code</li> <li>○ Radio frequency identification device (RFID)</li> <li>○ Bar code identification</li> <li>○ Complementary equipment required by different identification technologies or standards (e.g. different frequency identification labels only work with respective readers)</li> </ul> </li> <li>• Understand the advantages and disadvantages of different electronic cargo identification technologies, including: <ul style="list-style-type: none"> <li>○ Data type and capacity stored in different labels or bar codes</li> <li>○ Effective distance between the label or bar code and the reader</li> <li>○ Cost effectiveness of the readers and the labels or bar codes</li> </ul> </li> <li>• Understand the legal responsibilities and risks of using various types of e-logistics technologies</li> <li>• Understand sources of new technology development and updates</li> <li>• Understand the needs of the company and its customers to create its own technology</li> <li>• Understand the future trend and development plan of key market players, market leaders, key subcontractors and customers in short-, mid- and long-term basis like A/I, big data, etc.</li> <li>• Understand the concern and demand from different stakeholders' viewpoint and their beneficiaries</li> </ul> <p>2. Formulate application strategies for electronic identification technology</p> <ul style="list-style-type: none"> <li>• Able to analyse the needs of individual enterprises according to their logistics operation procedures and the degree of electronic operation</li> <li>• Identify key areas in operation and develop electronic equipment requirements based on information</li> <li>• Identify current and historical problems, electronic equipment can be used to eliminate them, such as late data entry, incorrect data entry</li> <li>• Based on the advantages and disadvantages of different electronic identification technologies, analyse whether different electronic identification technologies are suitable for use by the company</li> <li>• Develop cost-effective electronic identification technology application strategies</li> <li>• Determine the level of information access and its capabilities, taking into account the complexity of multiple languages and usage</li> <li>• Analyse the sources of new technology information and develop integration possibilities</li> <li>• Analyse current data source opportunities and integration options for internal and external connections, reuse and reporting</li> </ul>

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	<ul style="list-style-type: none"> <li>• Use the company's existing settings to analyse external technology integration sources</li> <li>• Analyse and develop our own R&amp;D team for long-term technology development and invention</li> </ul> <p>3. Evaluate the application strategy of electronic identification technology</p> <ul style="list-style-type: none"> <li>• Establish key performance indicators and measures to assess output</li> <li>• Analyse the benefits of different cargo electronic identification technology application strategies</li> <li>• Suggest adjustments to ensure an effective strategy</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 and cost-effective strategies for the application of electronic cargo identification technologies according to the operation and needs of the enterprise and the advantages, disadvantages and suitability of different electronic cargo identification technologies; and</li> <li>• Capable to assess the effectiveness and efficiency of different electronic cargo identification technologies utilisation strategies</li> </ul>
Remark	This UoC is adopted from the Logistics UoCs LOCEUL501A and LOCUEL502A