

**Specification of Competency Standards**  
**for the Manufacturing Technology.**  
**Unit of Competency.**

**Functional Area - Business Intelligence and Information Technology**

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| <b>Title</b>               | Implement “Industry 4.0” digital operations and performance management, establish digital dashboards as needed, develop enterprise digital key performance indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Code</b>                | 111555L5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Range</b>               | This unit of competency is applicable to the business intelligence and information technology departments, process design and development departments / engineering departments, and supply chain management departments of companies in the manufacturing technology industry. Practitioners should be capable to master and develop “Industry 4.0” enterprise digital key performance indicators (Digital KPIs), create “Industry 4.0” digital dashboards according to the company’s needs, and monitor operational and business performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Level</b>               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Credit</b>              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Competency</b>          | <p><b>Performance Requirements</b></p> <ol style="list-style-type: none"> <li>Understand relevant knowledge of digital operation of “Industry 4.0” <ul style="list-style-type: none"> <li>Understand definition and identification steps of “Industry 4.0” enterprise digital key performance indicators (Digital KPIs / DKPIs)</li> <li>Understand types, features, requirements, and advantages of different “Industry 4.0” digital dashboards</li> <li>Understand how to build digital dashboard for Industry 4.0</li> </ul> </li> <li>Implement “Industry 4.0” digital operations <ul style="list-style-type: none"> <li>Able to identify company’s key performance indicators (KPIs), monitor and update relevant data</li> <li>Able to develop “Industry 4.0” enterprise digital key performance indicators (DKPIs) and measuring the effectiveness and accuracy of the data required for each DKPI</li> <li>Able to create suitable “Industry 4.0” digital dashboards according to the needs of enterprises, provide intelligent analysis and suggestions, and assist management in making decisions</li> <li>Able to continuously improve the effectiveness, timeliness, and accuracy of data collection and analysis according to the PDCA cycle and update the company’s digital key performance indicators (DKPIs) in a timely manner</li> </ul> </li> <li>Professional handling of “Industry 4.0” digital operations <ul style="list-style-type: none"> <li>Able to consider factors such as safety, risk, production capacity, quality, environmental protection, and cost in detail, implement “Industry 4.0” digital operations, and able to balance and meet the requirements of all parties</li> </ul> </li> </ol> |
| <b>Assessment Criteria</b> | <p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>Able to identify and develop digital key performance indicators (DKPIs) for Industry 4.0 enterprises</li> <li>Able to create suitable “Industry 4.0” digital dashboards as needed and continuously improve them according to the PDCA cycle</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Remark</b>              | Individuals who possess the above knowledge and competency are able to support the enterprise to achieve the Industry 4.0 digital maturity level of transparency (2i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |