

**Specification of Competency Standards**  
**for the Information & Communications Technology Industry**  
**Unit of Competency**

Functional Area - Data Science

Title	Build the analytics solutions/models to support better business decisions and improve performance
Code	111145L6
Range	This UoC involves building and managing the data analytics solutions/models using identified data analytics tools and/or modelling tools/processes with precise and faster results to support better business decisions and improve performance
Level	6
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the practices of data analytics solutions/models, data analytics tools and/or modelling tools throughout its lifetime through the internal (and external) data streams of an enterprise</p> <ul style="list-style-type: none"> <li>• Be able to: <ul style="list-style-type: none"> <li>○ understand the data analytics solutions/models and relevant data analytics tools and/or modelling tools/processes being a comprehensive set of concepts, procedures, practices, processes, and a number of systems that allow for an organization to analyse the data</li> <li>○ aware of a wide range of core data science/analytics techniques (See Remark 1), their advantages, disadvantages and areas of application in different dimensions (See Remark 2)</li> <li>○ aware of the necessity of the data analytics solutions and data models, relevant objectives, time and resource requirements</li> </ul> </li> </ul> <p>2. Build the right data analytics solutions/models/processes based on the data analytics requirements</p> <ul style="list-style-type: none"> <li>• Be able to: <ul style="list-style-type: none"> <li>○ design and build the right data analytics solutions/models/processes using identified analytics tools and/or modelling tools from existing markets based on requirements</li> <li>○ test the developed data analytics solutions/models/processes</li> </ul> </li> </ul> <p>3. Evaluate the developed data analytics solutions/models/processes</p> <ul style="list-style-type: none"> <li>• Be able to: <ul style="list-style-type: none"> <li>○ evaluate the developed data analytics solutions/models/processes based on the data objectives</li> </ul> </li> </ul>
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to design and build right data analytics solutions/model/processes using identified data analytics tools and/or modelling tools with obtaining precise and faster results to support better business decisions and performances of organisation
Remark	<p>1. The analytics techniques include (but not limited to) statistical methods, data mining methods, machine learning, deep learning, reinforcement learning, artificial intelligence</p> <p>2. Data dimensions:</p> <ul style="list-style-type: none"> <li>• traditional vs. emerging data</li> <li>• structured vs. unstructured data</li> </ul>