

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

Functional Area - Design, Development & Maintenance

Title	Perform risk assessment on system migration
Code	111157L6
Range	This UoC involves analysing the cloud deployment/migration plan by taking into account the in-house system confirmation and business operations
Level	6
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the risk factors in software deployment or migration</p> <ul style="list-style-type: none"> • Be able to list out the general risk factors in software deployment or migration such as <ul style="list-style-type: none"> ○ tight schedule in deployment timeline ○ insufficient scale of suitable hardware for software deployment or migration ○ lack of network bandwidth for remote sites ○ no automatic tool available for large scale deployment or migration of software ○ incompatible of the existing architecture ○ unwanted latency after migration ○ lack of visibility and control ○ data loss/corruption during the migration process ○ security risk including but not limited to: <ul style="list-style-type: none"> ▪ compliance violations ▪ security breaches ▪ insecure APIs ▪ misconfiguration ▪ hijacking of accounts services ▪ insider threats <p>2. Perform risk assessment on software deployment and migration</p> <ul style="list-style-type: none"> • audit the legacy architecture/system and minimize the inconsistencies and interoperability problems on software deployment or migration exercise • evaluate the impact of each risk factor on the software deployment or migration exercise • consolidate the impacts from possible risk factors in qualitative and quantitative terms <p>3. Report the risk assessment to stakeholders</p> <ul style="list-style-type: none"> • rank the identified risk factors according to the severity to the business entity, such as <ul style="list-style-type: none"> ○ key benefits and security risks of Cloud Computing ○ obligations of Cloud service provider under the share responsibility model • report the findings to stakeholders in good faith <p>4. Perform risk assessment on software deployment and migration in a professional manner</p> <ul style="list-style-type: none"> • formulate and execute a recovery/restore plan • perform risk assessment on software deployment and migration in accordance with the organisation's guidelines as well as any (local and international) laws and regulatory requirements, if applicable
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • analyse the cloud deployment / migration plan • perform a risk assessment on cloud deployment / migration exercise.

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Remark	
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