



Australian Government

**Assessment Requirements for MSS405055
Manage application of Six Sigma for
process control and improvement**

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Elements changed. Performance Criteria changed. Foundation Skills populated. Range of Conditions removed. Assessment Requirements changed. Workplace outcome changed. Supersedes and is not equivalent to MSS405053 Manage application of Six Sigma for process control and improvement.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- manage application of Six Sigma to control and improve at least one process.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- processes for the identification and definition of Six Sigma (or similar) projects
- sampling, data collection, and analysis methods
- how to determine quantifiable benefits
- DMAIC methodology and application
- statistical principles and analysis, including confidence limits, analysis of variance, frequency distribution tables, histograms, arithmetic mean, median, mode, standard deviation, range, interquartile range, correlation and dependence
- acceptance criteria and confidence levels
- failure mode and effects analysis (FMEA)
- process mapping
- suppliers, inputs, process, outputs, customers (SIPOC) mapping
- types of data (including discrete, continuous and attributes) and their use in Six Sigma
- communication styles, methods and media to suit a range of audiences
- types of skills and information needed to apply DMAIC and process controls
- options to address skills and information needs.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - access to process data

- modelling of industry operating conditions.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume Implementation Guides are found in VETNet – -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>