



Australian Government

MSS404084 Undertake process capability improvements

Release: 1

MSS404084 Undertake process capability improvements

Modification History

Release 1. Updated unit code. Changes to performance criteria. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Application

This unit describes the skills and knowledge required to make process capability improvements, including analysing data from the process, developing improvements to eliminate variation due to assignable causes and then implementing actions.

This unit applies to a person who reviews a range of process capability data and information and makes (or arranges for) changes to be made to procedures, equipment or process and then recalculates the process capability and monitors resulting improvement actions. The person will typically be a technical expert, team leader or be in a role where they have sufficient technical understanding of processes in their own work and that of others to be able to suggest and justify process capability improvements.

Process capability may have been determined using either a six sigma or three sigma processes. This unit applies to the application of statistical methods and the determination of capability based on those methods.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Competitive systems and practices

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Obtain required data

1.1 Identify process for study

1.2 Obtain or organise process to obtain required data and information

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 2 | Analyse information | 2.1 | Read and interpret data and determine assignable causes |
| | | 2.2 | Develop possible improvements to eliminate assignable causes |
| | | 2.3 | Develop process improvement proposals |
| 3 | Improve process capability | 3.1 | Obtain required authorisations to implement improvements |
| | | 3.2 | Liaise with relevant people to implement improvements |
| | | 3.3 | Obtain or organise required data for improved process |
| | | 3.4 | Recalculate process capability |
| | | 3.5 | Implement revised data collection and processing and new capability information |
| | | 3.6 | Monitor improvement actions and adjust |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS404050 Undertake process capability improvements.

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

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

Assessment Requirements for MSS404084 Undertake process capability improvements

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Performance Evidence

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

- planned and implemented at least 1 process capability improvement.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- data collection and manipulation techniques
- variability, normal distribution and three and six sigma limits
- type of variations:
 - random variation (no assignable cause)
 - non-random variation (which has an assignable cause).
- causes of non-random variation in the process
- approaches to reducing variability.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions, contingencies, facilities, equipment and resources.

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

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