



Australian Government

Assessment Requirements for MSS405057

Design an experiment

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Performance Criteria changed. Foundation Skills populated. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to MSS405052 Design an experiment.

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:

- design, conduct and analyse and confirm results from at least one experiment.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- statistical principles and analysis including:
 - analysis of means (ANOM)
 - prediction equations
 - analysis of variance (ANOVA)/one-way ANOVA
 - desirability function
 - hit a target
 - advanced graphical data analysis
 - multi-variate planning
 - variation trees and funnelling
 - hypothesis testing
 - central limit theorem
 - statistical analysis roadmap
 - analysis for means and t-test
 - correlation and regression
- factorial analysis principles and methods
- acceptance criteria and confidence levels
- selection and use of statistics packs.

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

- 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>