



Australian Government

PMC557092 Specify and interpret refractory tests

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to PMC557092A Specify and interpret refractory tests

Application

This unit of competency covers the skills and knowledge required to specify and interpret refractory tests.

This unit of competency applies to operators who are required to determine the information needed from tests, specify the data, test methods and sampling regime, and interpret the data to obtain the required information.

This unit of competency applies to senior technicians or those in similar roles who are required to analyse and synthesise advanced theoretical and technical knowledge and apply independent judgement to high-level technical issues and complex problems. The individual may work in liaison with other refractory specialists or they may be the sole refractory specialist for this job or in their organisation.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Technical

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.

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|---|--|-----|--|
| 1 | Determine information required from tests | 1.1 | Analyse relevant documents for any test information requirements |
| | | 1.2 | Liaise with relevant stakeholders to determine test information requirements |
| | | 1.3 | Confirm the end use conditions for the refractory |
| | | 1.4 | Identify discrepancies or conflicts in requirements |
| | | 1.5 | Negotiate a consistent set of test information requirements |
| 2 | Specify required tests | 2.1 | Determine data required to yield the required information |
| | | 2.2 | Determine range of tests and test methods which will yield that data the set of requirements |
| | | 2.3 | Make a preliminary selection of tests which will provide required data |
| | | 2.4 | Identify health, safety and environmental (HSE) risks of possible tests |
| | | 2.5 | Estimate the cost of possible tests |
| | | 2.6 | Confirm test data will yield information required by stakeholders |
| | | 2.7 | Specify preferred range of tests and test methods to provide required data |
| 3 | Specify sampling regime | 3.1 | Identify sample requirements of specified tests |
| | | 3.2 | Determine sampling frequency required to meet information requirements |
| | | 3.3 | Draft sampling regime |
| | | 3.4 | Liaise with relevant stakeholders in relation to sampling |

- regime
- 3.5 Negotiate changes to sampling regime and/or information requirements as required.
- 3.6 Finalise testing and sampling regime
- 4 **Interpret test data**
 - 4.1 Inspect test data for anomalies or discrepancies and take required action
 - 4.2 Determine required information from test data
 - 4.3 Analyse information as required
 - 4.4 File and report information as required
 - 4.5 Take appropriate action based on information

Foundation Skills

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

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- HSE legislation, regulations and codes of practice relevant to the workplace, equipment and production processes and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements.

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

HSE and other risks Identification of HSE and other risks includes consideration of:

- health and safety risks
- sustainability risks
- regulatory risks
- business risks.

Unit Mapping Information

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Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>