



**Australian Government**

**Assessment Requirements for MSL973018  
Prepare trial batches for evaluation**

**Release: 1**

# Assessment Requirements for MSL973018 Prepare trial batches for evaluation

## Modification History

| Release   | Comments   |
|-----------|--|
| Release 1 | <p>This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>.</p> <p>Supersedes and equivalent to MSL973006 Prepare trial batches for evaluation. Foundation skill information added. Range of conditions removed. Assessment requirements amended.</p> |

## Performance Evidence

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

- safely and effectively prepared and evaluated at least 3 different trial batches of materials.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- concepts of metrology, including:
  - all measurements are estimates
  - measurements belong to a population of measurements of the measured parameters
  - precision, accuracy and significant figures
  - sources of error, uncertainty and repeatability
  - traceability
- international system of units (SI)
- nature of batch materials and products used in job role
- properties of mixing materials and how they affect the properties of the final product
- principles and importance of representative sampling
- principles of the standard test methods and specifications used for evaluating batch materials in job role
- workplace traceability requirements
- typical problems:
  - not following standard operating procedures (SOPs)
  - measurement errors
  - calculation errors

- materials of unreliable quality
- insufficient mixing
- poor sampling procedures
- equipment breakdown and breakage
- awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and work health and safety (WHS) requirements specific to the work task.

## 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:
  - a standard laboratory equipped with basic test equipment, common measuring instruments, materials, standard methods, workplace procedures, SDS and equipment manuals
  - samples
  - laboratory equipment, such as ovens; sieves; balances; volumetric measures and mixers; hand tools, shovels, scoops and spatulas; and consumables, including sample bags and labels
  - laboratory documentation: batch specifications and work instructions.

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

## Links

MSL Laboratory Operations Companion Volume Implementation Guide is available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c63a03b-4a6b-4ae5-9560-1e3c5f462baa>