



Australian Government

Assessment Requirements for MSMWJ301 Operate a high pressure water jetting system

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSAPMWJ301A Operate a high pressure water jetting system

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and demonstrate the ability to:

- assemble and operate equipment which meets the requirements of a Class B system as defined by *AS/NZS 4233.1:2013 High pressure water jetting systems - Safe operation and maintenance* or its authorised replacement, including:
 - at least one (1) gun operation AND
 - at least one (1) of:
 - pipe cleaning
 - heat exchanger/tube cleaning
 - surface preparation
 - vessel (interior) cleaning using a cleaning head AND
 - use at least two (2) different types of nozzles/heads.
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Knowledge Evidence

Must provide evidence that demonstrates knowledge relevant to their job sufficient to operate independently and to solve routine and non-routine problems, including:

- hazards and hazard controls specific to the operation of water jetting equipment
- principles of operation and science (physics) of water jetting equipment and its component items
- types and duties of water jetting equipment and its component plant items
- correct methods of starting up, shutting down, operating and controlling water jetting equipment and its component plant items by type and duty
- relevant communication systems, including hand signals
- operational parameters and limits
- types and causes of known problems for water jetting and its components
- corrective action appropriate to the problem cause
- the importance of monitoring and controlling job conditions
- methods, purpose (and appropriate corrective action) of monitoring job variables
- situations requiring:
 - activating emergency stop

- stopping work until a situation is resolved
- raising alarm (when, how, who to)
- responding to injury.
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Assessment Conditions

- Competency must be achieved before performing this work unsupervised. Therefore this unit will typically be assessed off the job. Where assessment is undertaken on the job appropriate supervision and safety precautions must be provided.
- The unit should be assessed holistically and the judgement of competence shall be based on a holistic assessment of the evidence.
- While water jetting equipment meeting the requirements of Class B must be used, the plant/job requiring water jetting may be a realistic simulation of an industry plant/application/situation.
- All appropriate tools, equipment, paper work/permits and safety gear required will be available and used as required. The assessor should only intervene if it would be unsafe to allow the assessment to continue. It is expected that one assessor would not observe a group larger than ten persons at the one assessment event.
- Off-the-job assessment must sufficiently reflect realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment in a simulated environment should use evidence collected from one or more of:
 - walk-throughs
 - demonstration of skills
 - industry-based case studies/scenarios
 - 'what ifs'.
- Knowledge evidence will be collected independently of the above practical assessment and may use workbooks, written assessments, interviews (provided a record is kept) or other methods.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- Persons seeking verification of competence/retraining to comply with AS/NZS 4233.1:2013 High pressure water jetting systems - Safe operation and maintenance or its authorised replacement must meet the same evidence requirements as above.
- The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- As a minimum, assessors must satisfy the Standards for Registered Training Organisations 2015 assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>