



Australian Government

MSMWJ202 Use high pressure water jetting equipment

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSMWJ201 Use high pressure water jetting equipment. Unit code changed. Application and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed.

Application

This unit describes the skills and knowledge required to use high pressure water jetting equipment under the supervision of a competent operator. The job may be to clean, prepare, abrade, cut or demolish concrete, steel or other plant, equipment, vessels or infrastructure.

This work is undertaken using equipment that meets the requirements of a Class B system as defined by *AS 4233.1 High pressure water jetting systems – Part 1: Safe operation and maintenance* and in compliance with *Safe Work Australia Guide for Managing Risks from High Pressure Water Jetting*, its state/territory equivalent (where one exists) or the authorised replacement.

The worksite may be a client's site or a site belonging to the organisation.

This unit reflects the skills of an operator working under supervision. For a competent operator who is able to operate autonomously *MSMWJ304 Operate a high pressure water jetting system* should be used.

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

Pre-requisite Unit

Nil

Competency Field

Operations

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for work	1.1 Review required job details as part of team 1.2 Complete site access and work control requirements

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Identify site hazards and required hazard controls 1.4 Select, check, load and prepare required equipment under supervision 1.5 Participate in toolbox meeting or similar 1.6 Complete pre-work documentation to job requirements
2. Complete on-site preparation	2.1 Confirm correct equipment is at job or site location 2.2 Confirm job location, scope and requirements with supervisor 2.3 Communicate with site authorities and obtain correct work permits as directed 2.4 Read, interpret and follow job-related documentation as directed 2.5 Check that required quantity and quality of water is available 2.6 Check available waste disposal is adequate for all waste generated by job 2.7 Report any deviations from requirements to supervisor 2.8 Recognise and control job and site-specific hazards
3. Set up water jetting job	3.1 Prepare worksite to comply with job, safety and environmental requirements 3.2 Set up and prepare water jetting equipment in accordance with high pressure water jetting standards 3.3 Communicate with other work groups as appropriate to ensure safe and efficient operation 3.4 Establish appropriate means of communication between operators 3.5 Ensure hazard controls and personal protective equipment (PPE) are operational and adequate 3.6 Test emergency shut-off and report need for repair if not functional
4. Undertake water jetting job	4.1 Start up high pressure water jetting equipment as directed 4.2 Communicate with supervisor and any other operators as required by job 4.3 Operate equipment as directed 4.4 Monitor hazards and activate emergency stop as required 4.5 Monitor job, conditions and equipment and maintain agreed real-time visual and verbal communication

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	4.6 Recognise problems and resolve routine problems
5. Complete water jetting job	5.1 Shut down high pressure water jetting equipment as directed 5.2 Report job completion and any issues or incidents in accordance with site procedures 5.3 Clean job site and equipment and ensure appropriate disposal of all waste 5.4 Complete routine equipment servicing and store items in appropriate location 5.5 Identify and action restock requirements for spares and consumables 5.6 Participate in debrief 5.7 Complete documentation to job requirements

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 MSMWJ201 Use high pressure water jetting equipment.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSMWJ202 Use high pressure water jetting equipment

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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 demonstrated the ability to:

- assemble and operate, under supervision, equipment that meets the requirements of a Class B system as defined by *AS 4233.1 High pressure water jetting systems – Part 1: Safe operation and maintenance*, to complete:
 - at least one gun operation AND
 - at least one of the following:
 - pipe cleaning (not stormwater/sewerage system)
 - heat exchanger/tube cleaning
 - surface preparation
 - vessel (interior) cleaning using a cleaning head.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- existence and purpose of *AS 4233.1 High pressure water jetting systems – Part 1: Safe operation and maintenance* and *Safe Work Australia Guide for Managing Risks from High Pressure Water Jetting*
- system controls required by *AS 4233.1 High pressure water jetting systems – Part 1: Safe operation and maintenance* and *Safe Work Australia Guide for Managing Risks from High Pressure Water Jetting*
- possible injuries resulting from high pressure water jetting activities and appropriate responses to injuries
- hazards specific to the operation of water jetting equipment, including:
 - physical hazards,
 - stored energy hazards
 - working environment hazards
- environmental protection considerations for water jetting operations
- basic principles of how high pressure water jetting equipment works, including:
 - pump
 - motive power

- hoses and hose restraints
- guns, foot control devices, lances and nozzles
- preoperational checks and set-up procedures
- other equipment, plant, tools and hazard control devices required for water jetting jobs
- basic aspects of reaction force and its determination
- communication systems used between operators, including hand signals
- how to recognise water jetting problems and appropriate corrective action for routine problems
- situations requiring activation of emergency stop
- types of waste generated and procedures for safe disposal
- routine cleaning and servicing requirements for water jetting equipment.

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:
 - high pressure water jetting system and other tools and materials to complete tasks specified in the performance evidence
 - safety and personal protective equipment (PPE)
 - job documentation.

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

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