



**Australian Government**

**Assessment Requirements for MSMWJ304  
Operate a high pressure water jetting  
system**

**Release: 1**

# Assessment Requirements for MSMWJ304 Operate a high pressure water jetting system

## Modification History

Release 1. Supersedes and is not equivalent to MSMWJ301 Operate a high pressure water jetting system. Unit code changed. Application amended. MSMWJ202 added as a pre-requisite. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed which also includes 120 hours added to performance evidence.

## 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:

- perform the activities for a period of 120 hours under supervision
- autonomously assemble and operate 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*
- hazards and hazard controls specific to the operation of water jetting equipment, including:
  - physical hazards
  - stored energy hazards
  - working environment hazards
- environmental protection considerations for water jetting operations
- principles of operation of water jetting equipment and its component items

- types and application of water jetting equipment and its component items, including:
  - pump
  - motive power
  - hoses
  - guns, foot control devices, lances and nozzles
- equipment variables, including:
  - hose type, size and restraints
  - nozzle type
  - pressure and flow required
  - additives to be used
- units of measurement used in drawings and their practical application for equipment selection
- graphics and symbols used on drawings
- correct methods of starting up, shutting down, operating and controlling water jetting equipment and its component items by type and application
- communication systems used between operators, including hand signals
- operational parameters and limits of equipment
- types and causes of known problems for water jetting and its components and corrective action appropriate to the problem cause
- importance of monitoring and controlling job conditions
- methods for monitoring job variables, and the appropriate corrective actions
- types of situations that require:
  - activation of an emergency stop
  - stopping work until a situation is resolved
- procedures for:
  - raising the alarm (when, how, who to)
  - responding to injury
- routine cleaning and servicing requirements for water jetting equipment
- types of waste generated and procedures for safe disposal.

## 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.

## **Links**

Companion Volume implementation guides are found in VETNet -

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