



Australian Government

Assessment Requirements for MSMWJ305 Operate a drain cleaning system

Release: 1

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Modification History

Release 1. Supersedes and is not equivalent to MSMWJ302 Operate a drain cleaning system. Unit code changed. Application amended. Elements and Performance Criteria changed. Range of Conditions removed. Assessment Requirements changed.

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:

- autonomously assemble and operate drain cleaning 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:
 - one drain cleaning operation AND
 - one drain clearing (choke/blockage) actual or simulated operation on a drainage system
- use two different types of nozzles/heads across the above operations.

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 drain cleaning equipment, including:
 - physical hazards
 - stored energy hazards
 - working environment hazards
- environmental protection considerations for drain cleaning operations
- techniques and methodology of drain cleaning for drainage systems
- principles of operation of drain cleaning equipment and its component items, including:
 - positive displacement pump
 - motive power
 - hoses
 - nozzles

- starter bars
- anti-withdrawal devices
- easement reel
- equipment variables, including:
 - hose type, size and restraints
 - nozzle type
 - pressure and flow required
- units of measurement used in drawings and their practical application for equipment selection
- graphics and symbols used on drawings
- relationship between views contained in drawings
- correct methods of starting up, shutting down, operating and controlling drain cleaning 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 drain cleaning 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 drain cleaning 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:
 - drain cleaning 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>