

Unit of Competency CPCPPS5015

Inspect plumbing and drainage systems

Application

This unit specifies the skills and knowledge required to conduct inspections of hydraulic systems for a range of residential, commercial and industrial buildings to ensure compliance with Australian and New Zealand Standards and local authority and operational performance requirements.

This unit covers requirements for competent workplace performance in a consultancy or supervisory capacity in relation to plumbing services and hydraulics on a new or existing site.

Inspections of hydraulic systems must comply with Australian and New Zealand Standards and local authority and operational performance requirements.

Prerequisite Unit

Nil.

Elements and Performance Criteria

1. Specify local authority inspection requirements.	<ul style="list-style-type: none">1.1 Specify local authority inspection requirements for hydraulic systems according to legislation and standards.1.2 Identify and specify approved materials for different applications.1.3 Specify installation requirements complying with manufacturer manuals and regulatory requirements.
2. Develop inspection procedures.	<ul style="list-style-type: none">2.1 Develop and document administrative procedures for inspection projects.2.2 Develop inspection checklists.
3. Conduct inspections.	<ul style="list-style-type: none">3.1 Establish effective communication channels with relevant site personnel and stakeholders.3.2 Plan and detail inspection routes and schedules.3.3 Identify and apply work health and safety (WHS) guidelines and sustainability principles to inspections and wear appropriate personal protective equipment (PPE).3.4 Conduct inspection to assess compliance with regulatory requirements and professional workmanship standards.3.5 Hand sketch onsite as-constructed plans and take measurements.3.6 Use dispute resolution techniques as required when non-compliance is identified.3.7 Implement testing procedures.3.8 Accurately record inspection and testing results.
4. Prepare reports.	<ul style="list-style-type: none">4.1 Prepare inspection reports using onsite records, including as-constructed plans.4.2 Report and detail identified recommendations.4.3 Produce rectification schedules.
5. Enforce compliance.	<ul style="list-style-type: none">5.1 Detail breaches of relevant regulation or standards.5.2 Issue infringement notices and implement relevant follow-up procedures.5.3 Implement enforcement action issuing infringement notices in cases of non-compliance.

6. Maintain records.	6.1 Maintain inspection diary. 6.2 Process inspection records according to established administrative procedures.
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Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCPPS5015B Inspect plumbing and drainage systems.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPPS5015 Inspect plumbing and drainage systems

Performance Evidence

To demonstrate competency in this unit, a person must meet the performance criteria for this unit by:

- conducting a compliance inspection on four different hydraulic systems and prepare a report on each instance to ensure compliance.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- common terminology and definitions used in the design of plumbing and drainage systems
- use of approved materials identified from Australian and New Zealand Standards and effects of performance under various conditions:
 - fixtures
 - fittings
 - pipes
- principles of technology used in the design of hydraulic systems:
 - fire services
 - gas services
 - mechanical services
 - sanitary plumbing and drainage
 - stormwater drainage
 - trade waste
 - water supply
- administrative procedures required for the inspection of hydraulic systems:
 - file management
 - inspection allocation
 - inspection records
 - logging inspections
- inspection checklists requirements:
 - approved installation methods
 - authorised materials
 - project section
 - compliance with:
 - Australian and New Zealand Standards
 - distances
 - limitations
 - National Construction Code (NCC)

- other regulatory requirements
- Inspection reports requirements:
 - defect
 - inspection
 - performance
 - quality assurance
- as-constructed plans including layout of:
 - fire services pipework
 - gas pipework
 - mechanical services pipework
 - sanitary plumbing and drainage pipework
 - stormwater pipework
 - trade waste drainage systems
 - water supply pipework
- effective dispute resolution techniques when non-compliance is identified:
 - active listening techniques
 - non-threatening body language
 - power neutral relationships
 - other recognised dispute avoidance and resolution techniques
- testing procedures:
 - air pressure tests
 - compliance checklist
 - gas leak detection
 - hydrostatic tests
 - mirror tests
 - quality assurance (QA) audit
 - sound testing
- enforcement action implemented in the case of non-compliances:
 - fines
 - legal action
 - notification to plumbing licensing body
 - penalties
- sustainability principles and concepts:
 - selecting appropriate components and materials
 - choosing efficient products
 - using material efficiently
 - storing and disposing of hazardous material to ensure minimal environmental impact.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

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