



Australian Government

UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to use instrumentation drawings, specifications, industry standards and equipment manuals relevant to install, maintain and fault find process controls.

Process controls are a system dealing with mechanisms for maintaining the output of a specific process within a desired range. A process is predictable, stable and consistently operating at a target level of performance.

It includes applying principles of process control embodied in drawings, industry standards, specifications and equipment manuals; matching equipment with specifications for a given function; and locating and determining connections required between pneumatic, hydraulic and electrical equipment from instrumentation drawings and specifications.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

Competency Field

Instrumentation & Control

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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| 1 Identify instrumentation drawings, specifications, industry standards and equipment manuals | 1.1 Work health and safety (WHS)/occupational health and safety (OHS), risk control measures and workplace procedures are followed |
| | 1.2 Need for instrumentation drawings, specifications, industry standards or equipment manuals is determined for the work to be undertaken |
| | 1.3 Instrumentation drawings, specifications, industry standards or equipment manuals required for the work to be undertaken are obtained in accordance with workplace procedures |
| 2 Use instrumentation drawings, specifications, industry standards and equipment manuals | 2.1 Instrumentation drawings, specifications, industry standards and/or equipment manuals are selected appropriate to the work being undertaken |
| | 2.2 Instrumentation drawings, specifications, industry standards and equipment manuals are interpreted using information from process controls, instrumentation drawing layouts, conventions and symbols |
| | 2.3 Dimensions are extracted and applied from drawings and diagrams for application to work being undertaken |
| | 2.4 Location of equipment is determined from instrumentation drawings and specifications |
| | 2.5 Connections between pneumatic, hydraulic and electrical equipment are determined from instrumentation drawings and specifications |
| | 2.6 Equipment manuals are reviewed to ascertain content, format and located information are relevant to the work to be undertaken |
| 3 Convey instrumentation information using drawings and diagrams | 3.1 Drawing conventions are used in freehand drawing layouts to convey instrumentation information and ideas to others involved in the work to be undertaken |
| | 3.2 Instrumentation drawing conventions are used to neatly correct freehand original job drawing to show final 'as-installed' arrangement |
| | 3.3 Corrected drawings are forwarded to appropriate |

person/s in accordance with workplace procedures

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Instrumentation assembly, installation, fault finding, maintenance or development work functions for least two different process control systems must include:

- instrumentation drawings
- specification industry standards
- equipment manuals

Unit Mapping Information

This unit replaces and is equivalent to UEENEEI101A Use instrumentation drawings, specifications, standards and equipment manuals.

Links

Companion Volume implementation guides are found in VETNet - - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>