Assessment Requirements for UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks

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Modification History

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

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including
  - using risk control measures
- comparing process parameters and control requirements with the control apparatus
- determining control apparatus and interconnecting components required for control system
- determining the scope of the control system
- documenting control system arrangement and specifications for items selected
- preparing to set up and configure human-machine interface (HMI) and industrial networks
- seeking specified apparatus ingress protection (IP) rating from manufacturer specifications
- selecting control valve in accordance with workplace procedures and relevant industry standards
- selecting interconnecting cabling and tubing/piping
- setting up and configuring HMI and industrial networks.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- analogue and digital signals
- distributive control principles (DCS)
- purpose and application of control system networks
- relevant apparatus IP rating
- relevant HMI and industrial networks
- relevant industry process control systems
- relevant interconnecting cabling and tubing/piping
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications and operating instructions

- relevant process parameters and control requirements
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace instructions, policies and procedures
- telemetry components
- telemetry installation
- telemetry overview
- telemetry systems.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to setting up and configuring HMI and industrial networks
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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