



Australian Government

AHCINF304 Install and terminate extra low voltage wiring systems

Release: 1

AHCINF304 Install and terminate extra low voltage wiring systems

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to install wiring enclosures, cable support systems, cables and accessories in electrical systems of 36 volts or less.

All work must be carried out to comply with workplace procedures, work health and safety requirements, relevant legislation and codes and manufacturer's specifications.

This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources.

Licensing, legislative, regulatory or certification requirements may apply to this unit. Specific determination should be sought through the relevant State or Territory.

Pre-requisite Unit

Nil.

Unit Sector

Infrastructure (INF)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Plan and prepare for installation of extra low voltage wiring	1.1 Plan and prepare installation to ensure policies and procedures are followed, and the work is appropriately sequenced according to requirements 1.2 Consult with appropriate personnel to ensure the work is co-ordinated effectively with others on the work site

Element	Performance criteria
	1.3 Size cables and wires to suit calculated load 1.4 Check wiring system components against job requirements 1.5 Source accessories according to established procedures and to comply with organisational and task requirements 1.6 Determine location in which specific items of accessories, apparatus and circuits are to be installed from job requirements 1.7 Obtain materials necessary to complete the work according to established procedures and checked against the job requirement 1.8 Source tools, equipment and testing devices needed to carry out the installation work, checked for correct operation and safety 1.9 Check preparatory work to ensure that it complies with requirements and no unnecessary damage has occurred
2. Install wiring systems	2.1. Follow work health and safety policies and procedures for installing electrical wiring systems 2.2. Install wiring systems to meet requirements without damage or distortion to the surrounding environment or services 2.3. Terminate accessories and connect wire as required to solenoids and controllers, according to manufacturer and enterprise requirements 2.4. Respond to unplanned events or conditions using established procedures 2.5. Obtain approval from appropriate personnel according to established procedures before any contingencies are implemented 2.6. Undertake on-going checks of the quality of the work according to established procedures
3. Check and notify completion of work	3.1. Undertake final checks to ensure the installed wiring systems conform to requirements 3.2. Test system is to ensure that it works 3.3. Notify work completion according to established procedures

Foundation Skills

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

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCTEQ301A Install and terminate extra low voltage wiring systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCINF304 Install and terminate extra low voltage wiring systems

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- identify hazards and implement safe systems of work
- read labels and signage to differentiate between extra low voltage and other electrical systems
- read and follow manufactures manuals and enterprise procedures for extra low voltage wiring
- size cables and wires to suit calculated load
- install wiring systems
- check and notify completed installation activities
- follow enterprise work health and safety procedures and safely work with extra low voltage systems

Knowledge Evidence

The candidate must demonstrate knowledge of:

- basic electricity and electrical principles relating to extra low voltage wiring
- applications, materials and techniques relevant to the industry sector
- isolation and tagging procedures
- computerised controller systems
- enterprise policies and procedures
- testing equipment and procedures
- relevant legislation and guidelines for installing extra low voltage wiring.

Assessment Conditions

Competency is to be assessed in the workplace or simulated environment that accurately reflects performance in a real workplace setting.

Assessors must satisfy current standards for RTOs.

Links

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