



**Australian Government**

# **UEECS0029 Set up and configure basic local area network (LAN)**

**Release: 1**

# UEECS0029 Set up and configure basic local area network (LAN)

## 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 set up and configure local area network (LAN).

It includes planning, setting up, configuring, maintaining, completing work and documenting activities for LAN of up to 20 connected devices.

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

## Pre-requisite Unit

UEECS0003 Assemble, set up and test computing devices

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

## Competency Field

Computer Systems

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### **1 Prepare to set up and configure LAN**

### PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures are identified and applied
- 1.2** Extent of set-up and configuration work is determined from job specifications and consultations with relevant

|                                                |                                                                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | person/s                                                                                                                                                                                                                     |
|                                                | <b>1.3</b> Relevant person/s is consulted to coordinate work effectively with others on work site                                                                                                                            |
|                                                | <b>1.4</b> Hardware and software needed for work are obtained in accordance with workplace procedures and checked against job requirements                                                                                   |
|                                                | <b>1.5</b> Work is checked to ensure damage has not occurred and complies with requirements                                                                                                                                  |
| <b>2 Set up, configure and maintain LAN</b>    | <b>2.1</b> Hazards are identified, risks are assessed and control measures are implemented                                                                                                                                   |
|                                                | <b>2.2</b> Layout of network hardware cabling and outlets is determined from job specifications and/or consultations with relevant person/s                                                                                  |
|                                                | <b>2.3</b> Hardware is installed in accordance with workplace procedures                                                                                                                                                     |
|                                                | <b>2.4</b> Network software and protocols are installed and configured in accordance with network requirements                                                                                                               |
|                                                | <b>2.5</b> Network operations are tested and anomalies identified and corrected                                                                                                                                              |
|                                                | <b>2.6</b> Reported network failures and faults are responded to using appropriate tools and methods                                                                                                                         |
|                                                | <b>2.7</b> Identified causes of reported problems are rectified and network is tested in accordance with workplace procedures                                                                                                |
|                                                | <b>2.8</b> Unplanned situations are responded to in accordance with workplace procedures and approval of authorised person/s                                                                                                 |
|                                                | <b>2.9</b> Set-up, configuration and maintenance are completed without waste of materials, damage apparatus, surrounding environments or services using sustainable energy practices in accordance with workplace procedures |
| <b>3 Complete work and document activities</b> | <b>3.1</b> WHS/OHS risk control work completion measures and procedures are followed                                                                                                                                         |
|                                                | <b>3.2</b> Worksite is cleaned and made safe in accordance with workplace procedures                                                                                                                                         |

- 3.3 Network configuration and maintenance records are maintained in accordance with workplace procedures
- 3.4 Service report is completed and 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.

- Setting up and configuring LAN must include at least two the following:
- two personal computers/workstations
  - one server
  - switch or router
  - one input or output device

## Unit Mapping Information

This unit replaces and is equivalent to UEENEED146A Set up and configure basic local area network (LAN).

## Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>