



Australian Government

AHCINF302 Plan and construct an electric fence

Release: 1

AHCINF302 Plan and construct an electric fence

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to plan, construct and maintain an electric fence.

All work is carried out to comply with workplace procedures, work health and safety legislation and codes, manufacturer's specifications and sustainability practices

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

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

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. Determine electric fencing requirements	1.1 Access property maps and assess fencing requirements according to enterprise objectives and legislative requirements 1.2 Determine equipment, materials and labour requirements and ensure estimated costings are within budgetary constraints 1.3 Compare alternative electric fencing options to ensure cost-effectiveness 1.4 Prepare fencing plan giving consideration to siting fences in

Element	Performance criteria
	relation to natural features and proposed uses
2. Prepare for construction	2.1 Seek clarification of work plan 2.2 Organise and transport tools and equipment to the work site 2.3 Confirm and arrange labour requirements if required 2.4 Assess risk and minimise potential and existing hazards appropriately
3. Construct electric fence	3.1 Select, use and maintain suitable personal protective equipment 3.2 Construct electric fence according to work plan 3.3 Attach and position gates for correct operation and function 3.4 Install energiser according to manufacturer's specifications.
4. Complete fencing operations	4.1 Check fencing for correct installation and performance 4.2 Identify and fix electric fence faults 4.3 Clear and tidy work site and dispose of all waste in an environmentally responsible manner 4.4 Transport tools and fencing equipment from the work site and check and store 4.5 Record and maintain relevant information

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 AHCINF302A Plan and construct an electric fence.

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 AHCINF302 Plan and construct an electric fence

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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:

- develop an electric fencing plan for the enterprise
- identify hazards and implement safe operating procedures
- calculate and measure fencing requirements and calculate costings off the fencing plan
- read and interpret plans and site maps and mark out fence lines
- construct an electric fence that meets specifications and the needs of the enterprise
- operate fencing tools and construction equipment
- test and monitor the electric fence for earthing and current flow, resistance and leakage
- follow enterprise work health and safety policies

Knowledge Evidence

The candidate must demonstrate knowledge of:

- basic operation of electric fences including earthing and current flow, resistance and leakage
- differences between portable and mains power
- issues affecting electric fencing in relation to the whole property plan
- range of electric fencing designs, construction methods and materials
- dangers posed by electricity to personnel and livestock
- conditions under which electric fences may cause fire
- safe methods for diagnosing routine faults
- common electric fencing hazards and safety precautions
- relevant State/Territory legislation and regulations regarding electric fences
- work health and safety legislative requirements
- relevant codes of practice with regard to protection of the environment

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.

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