



Australian Government

UEERE0064 Design renewable energy heating systems

Release: 1

UEERE0064 Design renewable energy heating systems

Modification History

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

This unit replaces and is not equivalent to UEERE0030 Design renewable energy (RE) heating systems. Modifications include:

- Prerequisites changed
- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Updates to performance and knowledge evidence requirements and CVIG content developed
- Assessment conditions updated.

Application

This unit involves the skills and knowledge required to design a renewable energy (RE) heating system and its installation.

It includes determining and developing RE heating systems design, following design brief, documenting design calculations and criteria and obtaining approval for system design.

This unit is appropriate for Licenced Electricians or Electrical Engineers with responsibility for designing RE heating systems.

Licensing, legislative or certification requirements that apply to this unit may differ between jurisdictions and system types. They should be checked prior to commencing this unit.

Pre-requisite Unit

UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems

and

UEEEL0039 Design, install and verify compliance and functionality of general electrical installations

or

UEERE0051 Apply electrical principles to renewable energy design

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to design RE heating system

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) processes and workplace procedures for a given work area are identified, obtained and applied
- 1.2 Scope of the RE heating system electrical installation is determined from design brief
- 1.3 Safety and regulatory requirements to which the electrical installation must comply are identified, obtained and applied
- 1.4 Design development work is planned to meet scheduled timelines in consultation with other person/s involved in the RE heating system installation or associated work
- 2.1 RE heating system performance standards and compliance methods are applied to the design
- 2.2 Safety, functionality and budgetary considerations are incorporated in the RE heating system design
- 2.3 Power and energy management requirements are incorporated in design
- 2.4 Design aspects are verified by qualified person/s
- 2.5 RE heating system design is drafted and checked for compliance with the design brief and regulatory requirements
- 2.6 RE heating system design is documented for submission to relevant person/s for acceptance and approval

2 Develop heating system design

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.

Designing RE heating systems must include: • two different RE heating systems.

Unit Mapping Information

This unit replaces and is not equivalent to UEERE0030 Design renewable energy (RE) heating systems.

Links

Companion Volume Implementation Guides are found in VETNet -

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