



Australian Government

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

Release: 1

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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 complete site surveys for off-grid photovoltaic/generating set systems.

It includes safe work practices, site survey processes and procedures, service provider responsibilities, consulting with qualified people to assess client energy demand requirements and assessing off-grid equipment options to meet client requirements and site conditions. It also covers provision of advice to the client on energy storage standards, codes of practices, government/utilities incentive schemes, and information related to the installation of off-grid renewable energy (RE) generation systems.

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

Pre-requisite Unit

Not applicable

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare to conduct site survey

1.1 Stakeholders are identified and client requirements and expectations for off-grid system obtained

- 1.2 Work health and safety (WHS)/occupational health and safety (OHS) requirements, relevant legislated requirements, and workplace procedures relevant to site survey are obtained and applied
 - 1.3 Equipment and documentation needed for the site inspection are obtained in accordance with workplace procedures
 - 1.4 Requirements for site survey and roles/responsibilities of people involved in site survey, design and installation are discussed with client
 - 1.5 General information about industry standards, building/electrical regulations and codes, and risk minimisation is provided to client
 - 1.6 Advice on the benefits of renewable energy generation systems and energy management is provided to client
 - 1.7 Current client energy usage data is collected, and future changes identified
 - 1.8 Resources, information sources and other people that will support gathering required site survey information are identified
- 2 **Undertake and document site survey**
 - 2.1 Site survey for the proposed installation is safely undertaken
 - 2.2 Current and expected future client energy generation needs are discussed, and expectations are clarified
 - 2.3 Potential locations of equipment are discussed with client and preferences recorded
 - 2.4 Site hazards that may impact installation are identified and documented
 - 2.5 Information about site access, building structures, existing electrical infrastructure including existing RE and generation elements, available RE resources is gathered and included in report
 - 2.6 Site survey report is prepared and provided to designer in accordance with workplace procedures
 - 2.7 Designer, and other qualified person/s if required, are consulted and briefed on client expectations and

requirements

- 2.8 Designer, and other qualified person/s if required, are consulted and briefed on site access, conditions, risks and potential installation issues
- 2.9 Options for off-grid energy generation and storage equipment to meet site requirements and client expectations are discussed with designer, and other qualified person/s if required
- 2.10 Placement of system components is considered, and any restrictions or issues of concern noted
- 2.11 Final site survey report is prepared after consultation with designer

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.

Unit Mapping Information

This is a new unit.

Links

Companion Volume Implementation Guides are found in VETNet -

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