

Domain**SOLAR INSTALLATION****Title:****Demonstrate environmental awareness****Level: 5****Credits: 5****Purpose**

This unit standard specifies the competencies to demonstrate environmental awareness. It includes competencies in explaining environmental assessment and its importance and conducting an environmental impact assessment study and suggests possible mitigation measures. This unit standard is intended for those who work as solar installation technicians.

Special notes

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2. This unit standard is to be delivered and assessed in the context of electrical operations and should be assessed in conjunction with other relevant technical unit standards selected from this domain.
3. To demonstrate competence, at a minimum, evidence is required of identifying and implementing legal requirements for an electrical installation and maintenance business, applying knowledge of the functions and legal requirements for different types of business agents in the electrical industry, insurance requirements, financial and taxation requirements and requirements for planning and operating an electrical installation and maintenance business.
4. Assessment evidence may be collected from a real workplace or an appropriate simulated realistic environment in which electrical operations are carried out.
5. All electrical installation operations must have a business plan in which service provision and options for leasing or ownership of business premises and equipment arrangements are described.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria**Element 1: Explain environmental assessment and its importance****Range**

Explanation of environmental assessment includes and is not limited to definition, importance, legal requirements and contents of an environmental assessment report focusing more on energy development projects e.g. solar energy applications. Furthermore,

the unit includes competencies in environmental impact assessment of solar energy projects (including mitigation measures) and limitations of renewable energy projects consideration of an environmental impact assessment.

Performance Criteria

- 1.1 Importance of environmental assessment of a renewable energy project are explained and discussed.
- 1.2 Legal requirements of an environmental assessment are discussed.
- 1.3 Contents and preparation of an Environment Impact Assessment report are outlined, explained and discussed.

Element 2: Conduct an Environmental impact assessment study and suggest possible mitigation measures

Range

The element includes and is not limited to explaining the requirements, importance, procedure for carrying out an environmental impact assessment study and the contents of an environmental impact report. It also includes environmental risks and impacts of energy development project and ability to suggest mitigation measures.

Performance Criteria

- 2.1 Methodology and tools used to carry out an environmental impact assessment study are explained and applied.
- 2.2 Environmental Risks and impacts (positive and/or negative) are described and discussed.
- 2.3 Possible mitigation measures are proposed and strategies to implement these measures are discussed.

Registration Data

Subfield:	Electrical Engineering
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