

Domain
Title:
Level: 5

SOLAR INSTALLATION TECHNICIAN
Utilise specialized computer applications

Unit ID: 1685

Credits: 7

Purpose

This unit standard specifies the competencies required to utilise specialised computer applications. It includes competencies in demonstrating use of advanced computer skills and demonstrating use of simulation software application. This unit standard is intended for those who work as solar installation and maintenance technicians.

Special notes

1. 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.
2. 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.
3. Assessment evidence may be collected from a real workplace or an appropriate simulated realistic environment in which electrical operations are carried out.
4. 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: Demonstrate use of advanced computer skills

Range

The element focuses but not limited to identifying, explaining advanced computer knowledge in solving technical problems especially those associated to solar energy engineering.

Performance Criteria

- 1.1 Basic concepts of information Technology (IT) are explained and applied.

- 1.2 Using computers and file management are demonstrated.
- 1.3 Word processing skills are demonstrated.
- 1.4 Spreadsheet skills are demonstrated.
- 1.5 Database development and management skills are demonstrated.
- 1.6 Power point and technical presentation skills are demonstrated.
- 1.7 Information and communication technology skills are demonstrated.
- 1.8 Technical drawing skills (using appropriate computer software) are demonstrated.
- 1.9 Application of appropriate statistical software in data analysis is demonstrated.

Element 2: Demonstrate use of simulation software applications

Performance Criteria

- 2.1 Importance of simulation software in design and operation of systems is explained.
- 2.2 Interpretation, preparation and analysis of system data for computer simulation are demonstrated (based on objective e.g. design, performance and operation etc.).
- 2.3 Practical application and technical conclusion from the results of simulation are explained and discussed.

Registration Data

Subfield:	Electrician Engineering
Date first registered:	28 March 2018
Date this version registered:	28 March 2018
Anticipated review:	2023
Body responsible for review:	Namibia Training Authority