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# **UEERE0049 Apply safe work practices in the rooftop solar industry**

## **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 apply safe work practices in the rooftop solar industry.

It includes identifying health and safety legislation, regulations, standards, codes of practice and workplace requirements and their application to relevant workplace tasks.

It also includes working safely at heights, safe manual handling of solar components, asbestos and silica awareness.

Work is performed by teams of two or more persons to install and repair domestic or commercial solar rooftop systems.

The application of the skills and knowledge described in this unit may require a licence, registration or certification to practice in the workplace.

Other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

## **Pre-requisite Unit**

Not Applicable

## **Competency Field**

Renewable Energy

## **Unit Sector**

Electrotechnology

## **Elements and Performance Criteria**

### **ELEMENTS**

### **PERFORMANCE CRITERIA**

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Elements describe the essential outcomes.

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

1 Prepare to apply safe practices

- 1.1 Legislation, regulations, standards, codes of practice and workplace requirements for the worksite are identified and referred to
- 1.2 Plant, tools, equipment and personal protective equipment (PPE) required for work are determined, obtained and confirmed in working order
- 1.3 Hazards are identified, risks assessed and control measures identified in accordance with workplace and regulatory requirements
- 1.4 Worksite is prepared to minimise risk in accordance with workplace and regulatory requirements

2 Apply safe practices

- 2.1 Legislation, regulations, standards, codes of practice and workplace requirements for the work to be performed are applied and monitored
- 2.2 Manual handling is carried out in accordance with workplace and regulatory requirements
- 2.3 Plant, tools, equipment and PPE are used in accordance with manufacturer, workplace and regulatory requirements
- 2.4 Working at heights is carried out in accordance with workplace and regulatory requirements
- 2.5 Hazard control measures are applied and monitored in accordance with workplace and regulatory requirements
- 2.6 Worksite is maintained to minimise risk in accordance with workplace requirements
- 2.7 Hazards identified during the work are assessed and controlled in accordance with workplace and regulatory requirements
- 2.8 Incidents and emergencies are responded to in accordance with workplace and regulatory requirements

3 Complete work and documentation

- 3.1 Worksite is rehabilitated, cleaned and made safe in accordance with workplace and regulatory requirements

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- 3.2 Plant, tools and equipment are cleaned, checked and returned in accordance with workplace requirements
  - 3.3 Work records, reports and documentation are completed in accordance with workplace and regulatory requirements

## **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**

Newly created unit.

## **Links**

Companion Volume implementation guides are found in VETNet - LINK POPULATED ON PUBLICATION

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# Assessment Requirements for UEERE0049 Apply safe work practices in the rooftop solar industry

## Modification History

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## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- applying relevant legislation, regulations, standards, codes of practice and workplace requirements including:
  - work health and safety (WHS)/occupational health and safety (OHS)
  - working at heights
  - manual handling
- identifying typical hazards within the solar industry
- inspecting worksite to determine layout and physical condition of rooftop structures
- applying and reviewing risk control measures to minimise, control or eliminate identified hazards
- monitoring control measures
- obtaining, inspecting and using relevant personal protective equipment (PPE)
- applying workplace procedures for an emergency
- using plant, tools and equipment safely
- applying correct manual handling techniques
- applying current working at heights requirements for the solar industry
- completing relevant work records, reports and documentation.

## Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- relevant legislation, regulations standards, codes of practice and workplace requirements including:
  - WHS/OHS
  - manual handling in the solar industry
  - working at heights in the solar industry
- identifying hazards, assessing risks, and identifying, applying and monitoring control measures in the solar industry
- regulations for working in the vicinity of overhead supplies

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- types of manual handling equipment in the solar industry
  - working at heights practices in the solar industry including:
    - passive fall prevention systems
    - work positioning systems
    - fall arrest systems
    - clearances to other services
    - layout and physical condition of rooftop structures
  - types, inspection and application of PPE
  - safe use of plant, tools and equipment including:
    - pre-operational checks
    - post-operational checks
  - types of injuries common in the solar industry
  - emergency and rescue plan
  - asbestos, including:
    - common types of asbestos containing building materials
    - warning signs used to identify the presence of asbestos
    - effects of asbestos on the human body
    - requirements for reporting the presence of asbestos
  - silica, including:
    - types of materials that contain crystalline silica (silica dust)
    - methods of releasing silica dust
    - recommended levels of exposure to crystalline silica
    - effects of crystalline silica on the human body
  - working safely with electricity, including:
    - hazards of direct current (d.c.) and alternating current (a.c.) electricity
    - effects of electric shock on the body
    - precautions to minimise the chance of electric shock
    - common causes of electrical accidents
    - procedures for emergency involving electricity.

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations, where it is appropriate to do so.

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Where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

## **Links**

Companion Volume implementation guides are found in VETNet - LINK POPULATED ON PUBLICATION