

# Wind turbine height safety and rescue

**PUASAR022** Participate in a rescue operation; **PUATEA001** Work in a team; **PUATEA002** Work autonomously

## Course aim

This course is designed to provide students with the necessary skills and knowledge to perform working at heights rescue techniques off wind turbine using pre-engineered rescue kits. Students are taught several rescue techniques with these kits in order to deal with a variety of possible emergency situations that may arise due to the vast varying workplaces that wind turbine workers may face in everyday working environments.

## Course objectives

By the end of the course, the student will be able to:

*Demonstrate knowledge of:*

- Identification and assessment of hazards
- Select harness, pre-use inspection, don and properly fit the harness
- Select fall protection equipment, pre-use checks and operation
- Capabilities and limitations of rescue equipment
- Casualty handling techniques
- Environmental hazards
- Manual handling techniques
- Organisational policies and procedures
- Personal hygiene
- Procedures for reporting injuries and accidents
- Relevant legislative and regulatory requirements

### Ropes and knots

- Safety precautions
- Legal requirements and ramifications of team activities
- Safety precautions
- Non-operational and operational communication processes
- Use lanyards and self-retracting lifelines
- Rescue team roles are appropriately selected
- Communication is maintained and clear throughout rescue exercises
- Establish and monitor anchors
- Assess and monitor the casualty
- Archer systems checks
- Record keeping

## Course prerequisite

The following courses are prerequisite for government departments, statutory authorities or organisations that have responsibility for the delivery of firefighting and fire management services.

- HLTAID003 Provide first aid

In addition, 3M Australia recommends that all students hold a Nationally Recognised Statement of Attainment in RIIWHS204E Work safely at heights or equivalent unit.

## Course assessment

Students will be assessed to determine their competency in these courses both theoretically and practically.

The theory assessment consists of multiple choice and short answer questions.

The practical assessment will require students to participate in hazard identification discussion and the completion of a SWMS documentation; select, pre-use inspect, put on and correctly fit a full body harness; and perform working at heights rescue techniques in order to retrieve a workmate who is suspended or injured on a wind turbine needs assistance to get down to a safe area.

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*Demonstrate skills in the following:*

- Complete a safe work method statement (SWMS)
- Set up an exclusion zone
- Access and install equipment including
- Pre-use inspection off all arrest equipment
- Select harness; properly fit the harness and perform buddy checks
- Correct rigging of anchorage straps
- Correct restraint techniques
- Set up a shock absorbing lanyard and connect to anchorage and workers harnesses
- Twin tail lanyard mobility and pole strap work positioning techniques
- Correct demonstration of an emergency evacuation from a wind turbine
- Correct use of an industrial rescue kit
- Encouraging others/ team members
- Team building
- Interpersonal skills
- Reporting information
- Clean-up work area

**Course duration**

24 hours over 3 days (Initial)  
12 hours over 1.5 days (Refresher)  
(The times noted above includes a break.)

***Where delivered as a refresher, the delivery time is reduced and assessment time remains the same.***

**Trainer ratio**

8 students per 2 trainers

**Course location**

Courses are primarily delivered at our facilities:

3M Australia,  
93 Derby Street, Silverwater NSW  
The Construction Training Centre,  
460 Beaudesert Road, Salisbury QLD  
However, courses can be delivered at your worksite if required. In this instance your employer will confirm there are suitable facilities on site to deliver the training.

**On successful completion students will be issued with:**

**Statement of Attainment** in PUASAR022 Participate in a rescue operation;  
PUATEA001 Work in a team; PUATEA002 Work autonomously and a  
Certificate of Completion for Wind Turbine Height Safety and Rescue.

