



## National Certificate in Fixed Fire Protection Systems (Level 4)

### VERSION: 2

### CREDIT RANGE:

Level 1 credits	8
Level 2 credits	30
Level 3 credits	81
Level 4 or above	55
Total	174

### STUDENT FEES:

*Please contact  
Competenz on  
0800 526 1800  
to get the 2012 fees for  
this course.*



This qualification is for people in the fire protection industry, whose work involves the installation, commissioning, testing and servicing of fire sprinkler systems and special hazards fixed fire protection systems. All standards listed are required.

The qualification covers skills and knowledge in the following areas:

- Fire protection principles and industry knowledge;
- Engineering measurement;
- Fire sprinkler system installation or testing;
- First aid, resuscitation and safe working practices;
- Trade mathematics;
- Customer service;
- Communications and report writing.

### Are you able to?

- Install conventional and special hazard fixed fire protection systems,
- Fabricate pipe-work on site,
- Pre-commission and test conventional systems, and
- Specialise in commissioning of conventional or special hazard systems?

**Then this is the qualification for you!!**



**DURATION:** The qualification can typically be achieved in the course of a four year traineeship or apprentice programme or depending on your experience in the Fire Protection industry it is possible to finish the qualification sooner.

**LOCATION:** Distance Learning

**FURTHER STUDY:** This qualification is a good lead into the **National Certificate in Fire Protection Systems Technology (Inspection and Testing) (Level 4)**

**ENTRY REQUIREMENTS:** Open

**ADDITIONAL DOCUMENTATION:** Applicants must supply certified copies of proof of identify (passport or birth certificate) and proof of residency (where appropriate).



## Course Detail:

This is the order in how the assessments will be sent to the learner.

### YEAR ONE:

**Unit 497 - Demonstrate knowledge of workplace health and safety requirements.**

Level: 1      Credit: 3

**Purpose:**

People credited with this unit standard are able to: identify and describe legislative rights and responsibilities for workplace health and safety; describe the systems approach to workplace health and safety; and explain how hazards are defined in the HSE Act.

**Unit 4647 - Explain principles of fire science.**

Level: 2      Credit: 1

**Purpose:**

People credited with this unit standard are able to demonstrate knowledge of the basic principles of the chemistry of fire, and demonstrate knowledge of the basic principles of the physics of fire.

**Unit 57 - Provide customer service in given situations.**

Level: 2      Credit: 2

**Purpose:**

This unit standard is for people entering or employed in the service sector who wish to build their customer service skills. People credited with this unit standard are able to: identify elements of good service in a given situation; provide customer service in a given situation; and respond to customer complaints in a given situation.

**Unit 4432 - Demonstrate knowledge of, and convert, units of measure used in engineering.**

Level: 2      Credit: 2

**Purpose:**

People credited with this unit standard are able to: demonstrate knowledge of the international system of units; demonstrate knowledge of base and derived units of measure; and convert units of measure used in engineering.

**Unit 2395 - Select, use and care for, engineering hand tools.**

Level: 2      Credit: 4

**Purpose:**

People credited with this unit standard are able to select, use and care for, engineering hand tools.

**Unit 3271 - Suppress fire with hand extinguishers and fixed hose reels.**

Level: 2      Credit: 1

**Purpose:**

People credited with this unit standard are able to demonstrate knowledge of the fire classes and fire suppression techniques, and select and implement a strategy to deal with fire.

**Unit 3492 - Write a short report.**

Level: 2      Credit: 3

**Purpose:**

People credited with this unit standard are able to write a short report.

**Unit 9677 - Participate in groups and/or teams to gather ideas and information.**

Level: 2      Credit: 3

**Purpose:**

People credited with this unit standard are able to contribute to ideas and information gathering, and contribute to group and/or team function.

**Unit 8490 - Solve problems using calculations with numbers expressed in different forms.**

Level: 1      Credit: 2

**Purpose:**

People credited with this unit standard are able to convert between fractions, decimals and percentages; and solve problems involving conversions between percentages and fractions.

**Unit 4433 - Select, use, and care for simple measuring devices used in engineering.**

Level: 1      Credit: 2

**Purpose:**

People credited with this unit standard are able to select, use, and care for simple measuring devices used in engineering.

**Unit 2396 - Select, use and maintain portable hand held engineering power tools.**

Level: 2      Credit: 4

**Purpose:**

People credited with this unit standard are able to: create a safe worksite and to select, use care for and maintain portable hand held engineering power tools.



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### **Unit 15848 - Demonstrate knowledge of safeguards for use with portable electrical appliances.**

**Level: 2                      Credit: 2**

#### **Purpose:**

People credited with this unit standard are able to: demonstrate knowledge of regulations for safeguards for portable electrical appliances; demonstrate knowledge of residual current devices (RCD), isolating transformers, and double insulation for purpose of protection; and inspect portable electrical appliances for defects.

### **Unit 17731 - Demonstrate knowledge of fire sprinkler systems and installation practices .**

**Level: 3                      Credit: 10**

#### **Purpose:**

People credited with this unit standard are able to demonstrate knowledge of: fire sprinkler systems; system components used for fire sprinkler systems; pipe-work installation procedures and requirements for fire sprinkler systems; site preparation and establishment for the installation of fire sprinkler systems.

### **Unit 2430 - Draw and interpret engineering sketches under supervision.**

**Level: 2                      Credit: 9**

#### **Purpose:**

People credited with this unit standard are able to, under supervision, produce and interpret sketches, and confirm the interpretation and preparation of sketches.

### **Unit 17712 - Demonstrate knowledge of organisations and documentation that impact on the fire protection industry.**

**Level: 3                      Credit: 4**

#### **Purpose**

People credited with this unit standard are able to demonstrate knowledge of organisations and documentation that impact on the fire protection industry.

### **Unit 17732 - Demonstrate knowledge of special hazards fixed fire protection systems.**

**Level: 4                      Credit: 6**

#### **Purpose:**

People credited with this unit standard are able to demonstrate knowledge of special hazards fixed fire protection systems.

### **Unit 21911- Demonstrate knowledge of safety on engineering worksites.**

**Level: 2                      Credit: 1**

#### **Purpose:**

People credited with this standard are able to demonstrate knowledge of hazards, personal safety, and safety procedures and equipment on engineering worksites.

### **Unit 21912- Apply safe working practices on an engineering worksite.**

**Level: 2                      Credit: 2**

#### **Purpose:**

People credited with this unit standard are able to apply safe working practices on an engineering worksite

**Unit 6401 - Provide first aid & Unit 6402 - Provide resuscitation level 2, will be provided by your own preferred provider and the credits will be registered by them.**

## **YEAR TWO:**

### **Work Place Assessments:**

### **Unit 18432 - Fabricate pipe-work for fire sprinkler systems on site.**

**Level: 3                      Credit: 6**

#### **Purpose:**

People credited with this unit standard are, for fire sprinkler systems, able to prepare for pipe-work fabrication, and fabricate pipe-work on site.

### **Unit 18434 - Install fire sprinkler systems.**

**Level: 3                      Credit: 40**

#### **Purpose:**

People credited with this unit standard are, for fire sprinkler systems, able to: plan and prepare for installation; receive, prepare, and install components; and test installations and complete records.



### YEAR THREE:

#### Work Place Assessments:

**Unit 17734 - Conduct routine tests and maintenance of fire sprinkler systems.**

Level: 3                      Credit: 4

**Purpose:**

People credited with this unit standard are, for fire sprinkler systems, able to: prepare for routine tests and maintenance; conduct routine tests and maintenance; and complete documentation for reporting after routine tests and maintenance.

**Unit 9372 - Commission fire sprinkler systems.**

Level: 4                      Credit: 20

**Purpose:**

People credited with this unit standard are, for fire sprinkler systems, able to: prepare for commissioning; commission; and complete documentation and inform customers.

### YEAR FOUR:

#### Work Place Assessments:

**Unit 18433 - Install special hazards fixed fire protection systems.**

Level: 3                      Credit: 17

**Purpose:**

People credited with this unit standard are, for special hazards fixed fire protection systems, able to: plan and prepare for installation; receive, prepare, and install components; test installations and complete records.

**Unit 23588 – Service special hazards fixed fire protection systems.**

Level: 4                      Credit: 11

**Purpose:**

People credited with this unit standard are, for special hazards fixed fire protection systems, able to: prepare to service; service, and thereafter reinstate the systems to operational status; and complete documentation after servicing.

**Unit 9375 - Service fire sprinkler systems.**

Level: 4                      Credit: 11

**Purpose:**

People credited with this unit standard are, for fire sprinkler systems, able to: prepare to service; service, and thereafter reinstate the systems to operational status; and complete documentation after servicing.

**Unit 23587 - Commission special hazards fixed fire protection systems.**

Level: 4                      Credit: 7

**Purpose:**

People credited with this unit standard are, for special hazards fixed fire systems, able to: prepare for commissioning; commission; and complete documentation and inform customers.



Different types of sprinkler heads