



National Certificate in Fire Detection and Alarm Systems - Testing (Level 3)

VERSION: 3

CREDIT RANGE:

Level 1 credits	7
Level 2 credits	42
Level 3 credits	52
Total	101

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 inspection and testing of fire detection and alarm systems. All standards listed are required.

The qualification covers skills and knowledge in the following areas:

- Fire protection principles and industry knowledge;
- Electrical principles and safety;
- Fire detection and alarm systems and installation practices;
- Checking and testing of fire detection and alarm systems;
- First aid, resuscitation and safe working practices;
- Trade mathematics;
- Customer service;
- Communications and report writing.

Are you able to?

- Carry out periodic testing requirements on conventional and analogue addressable detection and alarm systems?

Then this is the qualification for you!!

Smoke detector sensitivity testing



DURATION: The qualification can typically be achieved in the course of a two 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 Detection and Alarm Systems (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 2780 - Demonstrate and apply knowledge of a personal computer system.

Level: 1 Credit: 3

Purpose:

People credited with this unit standard are able to: demonstrate knowledge of the hardware components of a personal computer system; demonstrate knowledge of the operation of the system and application software of a personal computer; operate a printer; complete basic operation and maintenance procedures for a personal computer system; and demonstrate knowledge of ergonomic principles for the safe operation of a personal computer system.

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 1277 - Communicate information in a specified workplace.

Level:2 Credit:3

Purpose:

People credited with this unit standard are able to: give information to clients in a specified workplace; record and convey information in a specified workplace; and respond to an inquiry in a specified workplace.

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 750 - Demonstrate knowledge of electrical test instruments and take measurements.

Level: 2 Credit: 2

Purpose:

People credited with this unit standard are able to demonstrate knowledge of electrical test instruments, and take electrical measurements.



Unit 15843 - Demonstrate knowledge of magnetism and electricity.

Level: 2 Credit: 15

Purpose:

People credited with this unit standard are able to: demonstrate knowledge of electrical conductors, insulators, and semiconductors, resistance, resistivity, and resistors; compare calculated with measured values in resistive circuits; demonstrate knowledge of electrical power and energy; analyse resistive circuits; and demonstrate knowledge of electromotive force (e.m.f.) production, electrochemistry, magnets and magnetism, and direct current (d.c.) and alternating current (a.c.) generation.

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.

Unit 15851 - Demonstrate knowledge of electrical safety and safe working practices for electrical workers.

Level: 2 Credit: 3

Purpose:

People credited with this unit standard are able to: demonstrate knowledge of the hazardous nature of electricity, the Health and Safety in Employment Act, the safety management of electrical hazards, general safety practices in the workplace, special hazards, and safe use of tools and test equipment; and analyse electrical incidents.

Unit 15847 - Demonstrate knowledge of mathematics and mechanics for electrical trades.

Level: 2 Credit: 4

Purpose:

People credited with this unit standard are able to demonstrate knowledge of: mathematics for electrical trades; mechanical terms and their units; and lever systems and mechanical drives.

YEAR TWO:

Unit 15845 - Draw and explain simple electrical diagrams.

Level: 2 Credit: 4

Purpose:

People credited with this unit standard are able to: draw and explain simple electrical circuit diagrams; draw electrical location diagrams; draw single-line diagrams for electricity distribution; and draw a schematic circuit, block, and wiring diagrams from inspection of a given electrical product.

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 23258 - Demonstrate knowledge of fire detection and alarm systems and installation practices.

Level: 3 Credit: 20

Purpose:

People credited with this unit standard are able to, for fire detection and alarm systems, demonstrate knowledge of: legislation, standards, and codes; input and output devices; conventional control equipment; addressable systems; gas flood systems; wiring requirements and procedures; and commissioning tests and procedures.

Unit 23259 - Demonstrate knowledge of checking and testing of fire detection and alarm systems.

Level: 3 Credit: 8

Purpose:

People credited with this unit standard are able to demonstrate knowledge of: general requirements for maintaining systems in compliance and good working order; monthly checks and tests; and annual checks and tests.

Work Place Assessment:

Unit 23262 - Check and test fire detection and alarm systems.

Level: 3 Credit: 30

Purpose:

This unit standard is for the training of fire alarm technicians, and covers monthly testing and annual testing (surveys) of fire detection and alarm systems in accordance with standard NZS 4512:2003, Part 6. People credited with this unit standard are able to prepare for and conduct checks and tests.