

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

**Level** 3

**Credits** 107

This qualification is has been **reviewed**. The last date to meet the requirements is 31 December 2020.

### Transition Arrangements

For detailed information see [Review Summaries](#) on the NZQA website.

People working towards this qualification may complete the requirements of the qualification by its last date for assessment.

The last date for enrolment into this reviewed qualification is 31 December 2017.

It is not intended that anyone be disadvantaged by this review, and the above transition arrangements have been designed for a smooth transition. However, anyone who feels that they have been disadvantaged may appeal to Competenz at the address below.

### NZQF National Qualification Registration Information

| Process      | Version | Date           | Last Date for Assessment |
|--------------|---------|----------------|--------------------------|
| Registration | 1       | June 2001      | December 2007            |
| Revision     | 2       | July 2005      | December 2010            |
| Review       | 3       | September 2007 | December 2020            |
| Republished  | 3       | October 2013   | December 2020            |
| Review       | 4       | March 2016     | December 2020            |

### Standard Setting Body

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

**Level** 3

**Credits** 107

### Purpose

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.

The qualification can typically be achieved in the course of a two-year traineeship or apprentice programme. It leads to the National Certificate in Fire Protection Systems Technology (Inspection and Testing) (Level 4) [Ref: 0864] and the National Certificate in Fire Detection and Alarm Systems (Level 4) [Ref: 0569]. People who have completed this qualification and wish to progress to installation work will already have significant credits towards the National Certificate in Fire Detection and Alarm Systems (Level 4) [Ref: 0569].

### Credit Range

|                          |     |
|--------------------------|-----|
| Level 1 credits          | 4   |
| Level 2 credits          | 51  |
| Level 3 or above credits | 52  |
| Total                    | 107 |

### Requirements for Award of Qualification

This qualification will be awarded to people who have met the following requirements.

- Compulsory standards

**Award of NZQF National Qualifications**

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

**Detailed Requirements****Compulsory**

The following standards are required

Community and Social Services > Community and Workplace Fire and Emergency Management > Workplace Fire and Emergency Response

| Id   | Title  | Level | Credit |
|------|--|-------|--------|
| 3271 | Suppress fire with hand extinguishers and fixed hose reels | 2     | 1      |
| 4647 | Explain principles of fire science                         | 2     | 1      |

Computing and Information Technology > Computing > Generic Computing

| Id   | Title   | Level | Credit |
|------|---|-------|--------|
| 2780 | Demonstrate and apply knowledge of a personal computer system | 2     | 9      |

Engineering and Technology > Electrical Engineering > Core Electrical

| Id    | Title  | Level | Credit |
|-------|--|-------|--------|
| 750   | Demonstrate knowledge of electrical test instruments and take measurements                   | 2     | 2      |
| 15843 | Demonstrate knowledge of magnetism and electricity   | 2     | 15     |
| 15845 | Draw and explain simple electrical diagrams  | 2     | 4      |
| 15847 | Demonstrate knowledge of mathematics and mechanics for electrical trades                     | 2     | 4      |
| 15851 | Demonstrate knowledge of electrical safety and safe working practices for electrical workers | 2     | 3      |

Engineering and Technology > Mechanical Engineering > Fire Detection and Alarm Systems

| Id    | Title  | Level | Credit |
|-------|--|-------|--------|
| 23258 | Demonstrate knowledge of fire detection and alarm systems and installation practices | 3     | 20     |

| <b>Id</b> | <b>Title</b>  | <b>Level</b> | <b>Credit</b> |
|-----------|---|--------------|---------------|
| 23259     | Demonstrate knowledge of checking and testing of fire detection and alarm systems | 3            | 8             |
| 23262     | Check and test fire detection and alarm systems                                   | 3            | 20            |

Engineering and Technology > Mechanical Engineering > Fire Protection Systems Technology

| <b>Id</b> | <b>Title</b>   | <b>Level</b> | <b>Credit</b> |
|-----------|--|--------------|---------------|
| 17712     | Demonstrate knowledge of organisations and documentation that impact on the fire protection industry | 3            | 4             |

Health > Health Studies > Core Health

| <b>Id</b> | <b>Title</b>                  | <b>Level</b> | <b>Credit</b> |
|-----------|-------------------------------|--------------|---------------|
| 6401      | Provide first aid             | 2            | 1             |
| 6402      | Provide resuscitation level 2 | 1            | 1             |

Health > Occupational Health and Safety > Occupational Health and Safety Practice

| <b>Id</b> | <b>Title</b>  | <b>Level</b> | <b>Credit</b> |
|-----------|---|--------------|---------------|
| 497       | Demonstrate knowledge of workplace health and safety requirements | 1            | 3             |

Humanities > Communication Skills > Interpersonal Communications

| <b>Id</b> | <b>Title</b>  | <b>Level</b> | <b>Credit</b> |
|-----------|---|--------------|---------------|
| 1277      | Communicate information in a specified workplace      | 2            | 3             |
| 9677      | Participate in a group/team which has an objective(s) | 2            | 3             |

Humanities > Communication Skills > Writing

| <b>Id</b> | <b>Title</b>         | <b>Level</b> | <b>Credit</b> |
|-----------|----------------------|--------------|---------------|
| 3492      | Write a short report | 2            | 3             |

Service Sector > Service Sector Skills > Service Sector - Core Skills

| <b>Id</b> | <b>Title</b>                                 | <b>Level</b> | <b>Credit</b> |
|-----------|--|--------------|---------------|
| 57        | Provide customer service in given situations | 2            | 2             |

### Previous versions of the qualification

Version 3 was republished in order to include reverse transition arrangements (see section below) to ensure candidates would not be disadvantaged when expiring standards were no longer available.

Version 3 was issued following a review by the Qualifications Advisory Group in December 2006 within the guidelines provided by the Sector Advisory Group.

Changes to structure and content included: titles, levels, and credits of reviewed standards updated; credit total from 114 to 107 credits; Elective section removed so that all standards compulsory; standards 17717 and 17725 replaced by 23262; standards 17718 and 17719 replaced by 23258; standards 17721 and 17722 replaced by 23259; standards 56, 58, 1178, 1279, 1979, 3488, 3490, 3491, 3501, 7123, 8489, 8490, 10790, 10791, 10933-10940, 12349, 15848, 15849, 15854, and 15871 removed from the qualification; and standards 497, 2780, and 15851 introduced to the qualification.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

| Credit for                   | Exempt from |
|------------------------------|-------------|
| 741, 742, 744, 746, 747, 756 | 15843       |
| 743, 745                     | 15845       |
| 1176, 5912                   | 15847       |
| 1179                         | 15851       |
| 17717, 17725                 | 23262       |
| 17718, 17719                 | 23258       |
| 17721, 17722                 | 23259       |

### Reverse transition

Reverse transition has been included for version 3 of this qualification to allow candidates to complete the qualification using either the expiring standard or replacement standards.

Version 3 of this qualification contains a standard that is expiring and that has been replaced by later standards. For the purposes of this qualification, people who have gained credit for the replacement standards are exempt from the requirement to gain credit for the expiring standard – see table below.

| Credit for          | Exempt from |
|---------------------|-------------|
| 25070, 25071, 25072 | 15843       |

Version 2 was issued to remove requirement for the Electrical Service Technician registration (EST-A).

## Other standard setting bodies whose standards are included in the qualification

Fire and Rescue Services Industry Training Organisation  
 NZQA  
 The Skills Organisation

## Certification

This certificate will display the logos of NZQA, Competenz and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

## Classification

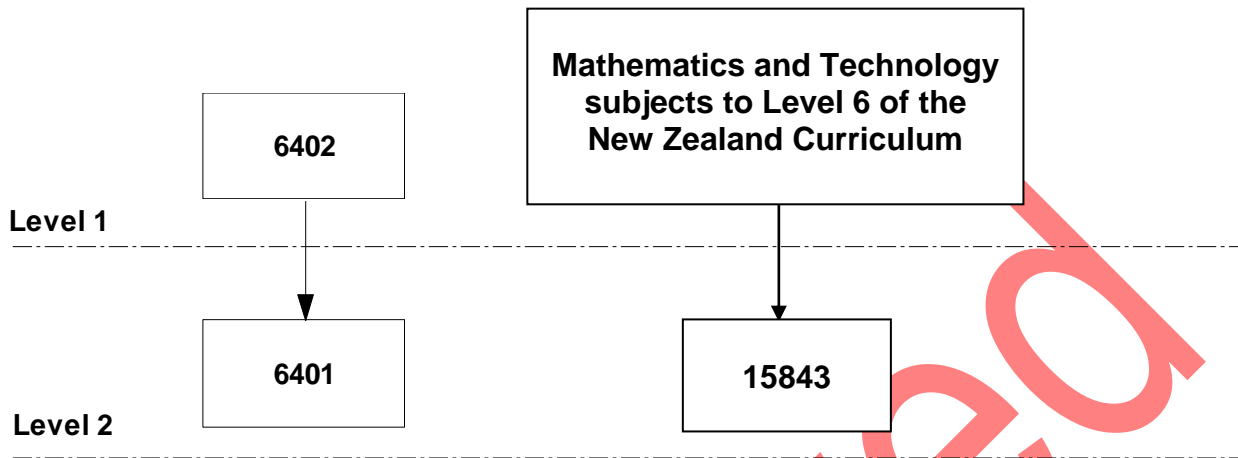
This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

| DAS Classification |  | NZSCED |   |
|--------------------|--|--------|---|
| Code               | Description  | Code   | Description   |
| 1350               | Engineering and Technology > Mechanical Engineering > Fire Detection and Alarm Systems | 039905 | Engineering and Related Technologies > Other Engineering and Related Technologies > Fire Technology and Rescue Services |

### Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

### Prerequisite Diagram



Reviewed