

SAQCC FIRE

D&GS TRAINING SUB COMMITTEE

COURSE CURRICULUM

COURSE	Fire Detection Supplier Training 2 Addressable Fire Detection - Basic	
ORIGINATOR	Nichola Allan	
DATE	30th October 2012	
Amendment 1	5th October 2013	1st committee review
Amendment 2	21st November 2013	2nd committee review
Issued	15th December 2014	Issued
Amendment 3	21st May 2015	Topics amended

EQUIVALENT TRAINING COURSES AVAILABLE		
TITLE	TRAINING SCHOOL	CONTACT DETAILS

STATUS OF CURRICULUM - Issued

EQUIVALENT UNIT STANDARD

None

PURPOSE OF TRAINING COURSE

This training course is for learners to gain knowledge of addressable fire panels including their functions, operation, installation and basic programming.

Learners who have completed this course will have a thorough knowledge to install and programme these fire detection panels.

LEARNING ASSUMED TO BE IN PLACE

This course assumes the learner is already proved competent in:

Workshop practice

Fire theory

Electrical and electronic theory

Cables and Cabling

Fire detection principles

Fire detection practical

OUTCOMES REQUIRED

Topics Covered:

1. Addressable fire panel
2. Addressable fire components
3. Configure and wire addressable fire system
4. Set up and programming of the panel
5. System testing and commissioning.

Outcome 1: The fundamental features of addressable fire panel

Learning Outcomes:

To include:

- The manufacturer
- The panel design standard
- The testing and approval of the fire panel.
- The functions of the fire panel
- Documentation provided with fire panel
- The location and mounting position of the fire panel
- The importance of system block plans and their installation

Assessment:

Learner to describe the origin and approvals of the fire panels and all the functions the fire panel provides.

Outcome 2: The components of the addressable fire system

Learning Outcomes:

To include:

- Compatible products and standard addressing technique for specific make
- Fire detectors
- Manual Call points
- Audible and visual warning devices
- Fire panels terminals and connections
- I/O units
- Isolators
- Other

Assessment:

Learner to describe the various components of the addressable fire system, their make and the compatibility with the fire panel.

Outcome 3: Configuration and wiring of the addressable fire detection system

Learning Outcomes:

To include :

- Loop design understanding device capacities and limitations
- Wiring of the fire detectors
- Wiring of the audible and visual devices
- Wiring of Manual Call Points
- Wiring into the fire panel
- Wiring of additional networked and third party devices
- Wiring of panel communications
- Installing and connecting the batteries

Assessment:

Learner to demonstrate knowledge of installing and wiring of the addressable fire detection devices that make up the addressable system.

Outcome 4: The system set up and basic programming

Learning Outcomes:

To include:

- Programming of the panel
- Setting up of the panel, dip switches etc
- Description of all the panel controls and operation
- Setting of device addresses

Assessment:

Learner to set up and programme the fire panel and devices for the system operation.

Outcome 5: System testing, commissioning and fault finding

Learning Outcomes:

To include:

- Testing of each device for correct operation in fire and fault conditions.
- Checking all panel controls and operation.
- Simulating all panel fault indications.
- Ensuring the correct audible and alarm actions take place.
- Demonstrate open and short circuit cable faults and their rectification
- Demonstrate how to find faulty devices
- Identifying panel faults

Assessment:

Learner to describe how to test and commission the system and demonstrate ability to find faults on the system.