

SAQCC FIRE

D&GS TRAINING SUB COMMITTEE

COURSE CURRICULUM

COURSE	Fire Detection Supplier Training 1 Conventional Fire Detection	
ORIGINATOR	Nichola Allan	
DATE	01st August 2013	
Amendment 1	06th October 2013	2nd draft amended
Amendment 2	21st November 2013	Approved - Issued

EQUIVALENT TRAINING COURSES AVAILABLE		
TITLE	TRAINING SCHOOL	CONTACT DETAILS
Conventional panel training	G2	087 940 9322
Conventional panel training	Technoswitch	011 794 9144
Conventional panel training	UTC	011 579 7300
Conventional panel training	ADI	011 574 2500

STATUS OF CURRICULUM - Issued

EQUIVALENT UNIT STANDARD

None

PURPOSE OF TRAINING COURSE

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

Learners who have completed this course will have a thorough knowledge to install and configure 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. Conventional fire panel
2. Conventional fire components

Outcome 1: The origin and status of the conventional 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 conventional fire system.

Learning Outcomes:

To include:

- The fire detectors
- Manual Call points
- The audible and visual warning devices
- End of line resistors and diodes
- The fire panels terminals and connections

Assessment:

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

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

Learning Outcomes:

To include :

- Understanding the capacity of devices to be installed on the system
- The need to install a minimum of two audible warning devices to every fire panel
- Wiring of the fire detectors
- Wiring of the audible and visual devices
- Wiring of Manual Call Points
- Wiring into the fire panel
- Wiring of end of line devices
- Installing and connecting the batteries

Assessment:

Learner to demonstrate his knowledge of installing and wiring of the conventional fire detection system

Outcome 4: The system set up, configure, connection of a network and operation of the system.

Learning Outcomes:

To include:

- Configuration of the panel
- Setting up of the panel
- Networking of conventional fire panels
- Description of all the panel controls and operation

Assessment:

Learner to describe the setting up and programming the fire panel and its 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.