

SAQCC FIRE

D&GS TRAINING SUB COMMITTEE

COURSE CURRICULUM

COURSE	Standards Training SANS 246	
ORIGINATOR	K Norgate	
DATE	7th November 2013	
Amendment 1	29th November 2013	Changes
Amendment 2	06th February 2014	Split SANS 246 and SANS322 curriculums
Issued	28th May 2014	Issued

EQUIVALENT TRAINING COURSES AVAILABLE		
TITLE	TRAINING SCHOOL	CONTACT DETAILS
SANS 246	Fire Systems Training	011 450 4706

STATUS OF CURRICULUM - Issued

EQUIVALENT UNIT STANDARD

None

PURPOSE OF TRAINING COURSE

This training course is for learners requiring to get an understanding of the fire detection National standard used within South Africa.

Learners who have completed this course will have a thorough working knowledge of the design, installation, commissioning and servicing requirements for fire detection systems in electronic environments as per the South African National Standards.

LEARNING ASSUMED TO BE IN PLACE

This course assumes the learner is already proved competent in:

- Workshop practice
- Cables and Cabling
- Basic fire theory
- Supplier Training
- Installation and Commissioning practices
- Standards training SANS 10139

OUTCOMES REQUIRED

Topics Covered:

1. The full content of the National standard for fire detection in electronic equipment installations SANS 246

Outcome 1: To understand the Scope of SANS 246 and Risk Assessments in relation to electronic equipment installations

Learning Outcomes:

To include:

- Assessing fires in computer rooms
- The scope of SANS 246
- The risk assessment of computer rooms

Assessment:

Learner to describe the scope of the SANS standard and fire risks associated with electronic equipment installations.

Outcome 2: The categories of electronic equipment installations.

Learning Outcomes:

To include:

- The description and explanation of all the listed SANS electronic equipment installations.

Assessment:

Learner to describe:

- The different categories of electronic equipment room environments.
- The application of the various categories.
- Selecting a fire protection solution for each category room.

Outcome 3: Construction requirements of electronic equipment rooms.

Learning Outcomes:

To include:

- Fire separation of electronic equipment installations
- Fire detection interface to air conditioning systems
- Electrical cables and fire separation

Assessment:

Learner to demonstrate knowledge of the importance of the properties of the equipment room and protection against fire.

Outcome 4: Fire detection systems for electronic equipment installations

Learning Outcomes:

To include:

- Selection of the type of fire detection system for an electronic equipment installation
- Design of fire detection systems for an electronic equipment installation
- Detector types for an electronic equipment installation
- Coverage and positioning of fire detectors for an electronic equipment installation

Assessment:

Learner to identify the type of fire system and detection devices for various electronic equipment installations.

Outcome 5: Fixed fire suppression system interfaces.

Learning Outcomes:

To include:

- Audible and visual warning devices
- Status indicators
- Air conditioning shutdown
- Plant shut down
- Monitoring of circuits
- Wiring for suppression systems

Assessment:

Learner to describe the various interfaces required to a gas suppression system.