

Fire & Smoke Damper Testing Course (HXT-F01) City & Guilds Accredited Programme

Course Overview

Knowledge

1. Appropriate knowledge of statutory Regulations relating to the maintenance of ventilation systems and safe working practices
 - ACOP5 (41, 42 & 43) in relation to the Workplace (Health, Safety & Welfare) Regulations 1992
 - UK Fire Safety Regulations:
 - The Regulatory (Fire Safety) Order 2005 (for England & Wales)
 - The Fire Safety Regulations (Scotland) 2006
 - The Fire Safety Regulations (Northern Ireland) 2010

2. Appropriate knowledge of industry standards, guidance & specifications in relation to ventilation system fire safety
 - BESA DW 145 Guide to Good Practice For the Installation of Fire and Smoke Dampers
 - BESA TR19 Guide to Good Practice – Internal Cleanliness of Ventilation Systems
 - BESA DW144 Specification for Sheet Metal Ductwork
 - BESA DW172 Specification for Kitchen Ventilation Systems
 - Firecode – Fire Safety in the NHS HTM 05-02: Guidance in support of functional provisions for healthcare premises
 - BS EN 9999 Code of practice for fire safety in the design, management and use of buildings

3. Understand the principles of Fire & Smoke damper devices and associated fire compartment barrier requirements
 - Understand the basic principles of fire containment and building compartmentation for reducing fire spread
 - Understand basic operating principles underpinning the release/activation of mechanical, electro-mechanical and passive fire damper systems

- Understand basic operating principles underpinning the release/activation of mechanical, electro-mechanical smoke damper systems
- Identify the potential fire safety hazards and adverse system performance in association with poor fire/smoke damper and ductwork cleanliness

Skills

1. Understand and carry out site planning and preparation for inspection testing and maintenance of fire/smoke dampers
 - Demonstrate organisation of works using either systems drawings or survey information
 - Prior to work commencing ensure that the necessary arrangements for protecting the fabric, equipment and appliances are in place
 - Prior to work commencing, understand the need to carry out the necessary checks to confirm that the work location and work area can be accessed safely and it has been checked for the risk to self and other personnel on site, and take appropriate action as directed if risk is present
 - Understand the need for job information and documentation is current and relevant, and that the tools, access and cleaning equipment are fit for purpose
 - Select and use cleaning/lubrication materials, tools and equipment suitable for the working environment in which the cleaning/lubrication is taking place
2. Understand and carry out the inspection, testing and maintenance of smoke/fire containment systems and associated components
 - Understand the need for the fan to be running during testing of dampers
 - Understand the correct order that systems need to be inspected, tested and maintained
 - Recognise various types of duct, i.e. rectangular, circular, flat oval & fire rated
 - Identify the various types of thermal and fire rated insulation materials
 - Demonstrate the ability to release and reinstate a fusible and spring-loaded link system

- Demonstrate the ability to apply the “Test & Reset” function of a motorised fire/smoke damper
 - Record damper location, type and identification in report format
3. Understand how to problem solve
- Evaluate problems through the application of appropriate technical skills and knowledge

Behaviours

1. Accepting responsibility for work carried out
 - a. Work reliably & effectively under close but not constant supervision

Prerequisites

Delegates should have basic working at height competency.

Course Duration

This is a 1-day course, typically running from 10am to 4pm

Course Format

This course may be delivered in our Training Centre environments, or alternatively at customer premises subject to prearrangement.

If you would like to explore having this course delivered at your premises, please call us on 01909 666708, or email: training@hydro-x.co.uk for details.

Please Note: Physical access is required to at least 1 type of installed fire or smoke damper (ideally in a plant room) for purposes of practical exercises. This should be safe and restricted from public access for the times required to facilitate the training.

Outline Agenda

10:00 – 10:10	Welcome and setting the course rules
10:10 – 11:40	Classroom Theory: Legislation, guidance, standards and damper design
11:40 – 12:00	Break
12:00 – 13:00	Practical Training: Accessing fire dampers
13:00 – 13:45	Lunch
13:45 – 14:45	Practical Training & Assessment: Testing & re-setting of fire dampers
14.45 – 15:30	Classroom Theory: Project Planning, fault identification & reporting protocols
15:30 – 16:00	Open book theory examination
16:00 – 16:15	Course summary and Q & A