

Overview

This standard is for those people who decommission industrial and commercial heating and ventilating systems.

The person performing this work must be able to comply with the correct procedures and practices for decommissioning industrial and commercial heating and systems. This work must be in accordance with the current versions of the appropriate industry standards and regulations; the specification; industry recognised working practices; the working environment and the natural environment. They must know and understand the operation, types, and application of the following systems:

Pipework

- hot water
- hot water heating
- cold water
- chilled water
- compressed air
- fire protection
- steam

and/or

Ductwork

- supply, extract and re-circulation
- local exhaust ventilation
- low, medium and high-pressure air
- fire protection
- kitchen extract

Performance criteria

You must be able to:

1. verify that the job information and documentation are current and relevant and that the plant, instruments, access equipment and tools to be used are fit for purpose
2. produce a risk assessment and method statement in accordance with organisational procedures for the work to be carried out, including the identification and use of personal protective equipment
3. confirm before work starts that the work location and work area can be accessed safely and has been checked for the risk to other personnel on the site, and take appropriate action if a risk is present
4. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades
5. decommission the system and its associated equipment, components and accessories in accordance with:
 - the system's design
 - organisational procedures
 - the working environment
 - manufacturer instructions
6. ensure that the system cannot be accidentally reactivated or become dangerous
7. confirm with the relevant people:
 - those necessary variations to the planned programme of work
 - the actions to be taken to ensure that any variations to the planned programme of work will minimise the potential for hazard and risk
8. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with suppliers' and manufacturers' instructions
9. complete relevant documentation in accordance with organisational procedures

Knowledge and understanding

You need to know and understand:

1. the operation, applications, advantages and limitations of different systems and their associated equipment, components and accessories in relation to:
 - * the system's design
 - * the working environment
2. the appropriate industry standards and regulations relevant to the decommissioning of industrial and commercial heating and ventilating systems
3. how to verify that job information and documentation is current and relevant and that the plant, instruments, access equipment and tools to be used are fit for purpose
4. how to produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment, in accordance with:
 - * the system's design
 - * the conditions of the working environment
 - * organisational procedures
 - * activities of other personnel and operations on site
5. the checks required to confirm that the system and its associated equipment, components and accessories have been decommissioned in accordance with:
 - * the system's design
 - * the conditions of the working environment
 - * manufacturer instructions
6. how to interpret diagrams and drawings of the system to locate site services
7. how to interpret diagrams and drawings of the system to identify the location of the system's associated equipment, components and accessories
8. the methods and techniques for decommissioning the system and its associated equipment, components and accessories in accordance with:
 - * the system's design
 - * the working environment
 - * manufacturer instructions
 - * organisational procedures
9. the methods and techniques to ensure the system cannot be accidentally reactivated or become dangerous
10. the organisational procedures for:
 - * confirming with relevant people those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact
 - * confirming with relevant people the correct actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum impact on the decommissioning work to be undertaken
 - * obtaining customer/client acceptance of the decommissioned system and its associated equipment, components and accessories
 - * completing all relevant documentation
11. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions

**Scope/range related
to performance
criteria**

Working Environment (Internal and/or External)

- commercial
- industrial
 - agricultural
 - horticultural
 - leisure and entertainment
 - residential medical and care facilities
 - public services establishments
 - pre-1919 traditional/historic buildings

Site services

- electricity
- water
- gas
- oil

Systems

Industrial and commercial heating and ventilating ductwork

- supply, extract and re-circulation
- local exhaust ventilation
- low, medium and high-pressure air
- fire protection
- kitchen extract

Industrial and commercial heating and ventilating pipework

- hot water – open vented/indirect/secondary circulation/instantaneous
- hot water heating (low, medium and high temperature)
- cold water – storage/none storage
- chilled water systems – air conditioning, refrigeration, heat rejection
- warm air
- compressed air
- fire protection
- steam

Equipment, components and accessories

- air handling units
- fans
- dampers

- access doors
- terminal units
- laboratory fume cupboards
- storage cabinets
- ventilation hoods
- filters
- humidifiers
- metal and flexible ductwork
- measuring instruments
- fuel-fired boilers (gas; oil; solid fuel)
- water storage vessels
- water heaters
- pumps
- heat emitters and exchangers
- burners
- flues
- cisterns
- refrigeration plant
- air conditioning plant
- calorifiers
- valves
- compressors
- receivers
- filters
- pressure vessels
- sprinkler heads
- traps and strainers
- measuring instruments
- environmental technology equipment
- prefabricated modules

Plant

- generators
- transformers for low voltage hand-tools
- lifting equipment
- access equipment

Site

- new build construction – building or structure
- existing building or structure

Organisational Procedures

- information management
- project management
- risk assessment management

- implementing and monitoring health & safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- customer service
- accident reporting
- emergencies
- communication with relevant people* *

Relevant people

- customers/clients
- client representatives
- supervisors
- site/contract manager
- other contractors/trades
- members of the public
- work colleagues

Developed by	BSE Skills
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Originating Organisation	SummitSkills
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Relevant Occupations	Heating and Ventilating Engineer
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Suite	Heating and Ventilating
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