

Draft Domestic Ventilation NOS for consultation

BSEDEV01	Installing and Testing Domestic Ventilation Systems
Overview	This standard is for people who install and test (verify) Domestic Ventilation systems and equipment which may include Low Carbon Technology and Smart Technology. The person carrying out this work must be able to comply with the procedures and methods for installing and testing Domestic Ventilation systems and equipment 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 different types of Domestic Ventilation systems and equipment their limitations, applications and the safe techniques for their positioning, fitting, fixing and connection.
Performance Criteria	1. verify that job information and documentation is current and relevant and that the plant, instruments and access equipment are fit for purpose 2. 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 3. produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment 4. inform relevant others about any design issues identified within the scope and limitations of your own competence, responsibilities and accountability 5. identify and select the relevant tools, equipment, accessories and components and confirm that they are: • of the right type and size • fit for purpose in accordance with the system design 6. confirm a programme of work with relevant others in accordance with organisational procedures 7. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades 8. identify the correct means of electrical isolation prior to commencing installation and connection work 9. complete safe-isolation¹ as and when required to ensure the safe installation and connection of Domestic Ventilation systems and equipment 10. install, fix, connect and terminate Domestic Ventilation Systems and their associated equipment, accessories and components in accordance with the requirements of: • the system design • industry recognised methods • manufacturer instructions • the building fabrics • thermal considerations 11. test and verify the connections and joints of the Domestic Ventilation System to ensure they are of proper construction in terms of insulation, mechanical strength and protection, and

¹ The individual must understand and apply safe isolation procedures, use GS38-compliant test equipment, identify the correct point of isolation, lock off supplies, label isolations, and confirm relevant Domestic Ventilation systems and equipment are dead using an approved voltage tester and proving unit. They must also be able to recognise dangerous conditions.

	ensure that they are identified correctly and clearly in accordance with the organisational requirements 12. use resources efficiently in accordance with organisational requirements 13. confirm with relevant others: - those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact on the installation work to be undertaken - 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 installation to be undertaken 14. provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 15. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 16. complete relevant documentation in accordance with organisational procedures
Knowledge and Understanding	- the scope and limitations of your own competence, responsibilities and accountability as it applies to your job role - the duty to report any acts or omissions that could be unsafe/detrimental to you or others - the operation, applications, advantages and limitations of different Domestic Ventilation systems and associated equipment, accessories and components - the appropriate industry standards, regulations and design requirements relevant to installing and connecting Domestic Ventilation systems and associated equipment, accessories and components - 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 design - organisational procedures - the potential design-related issues that are within the scope and limitations of your own competence, responsibilities and accountability - how to verify that job information and documentation is current and relevant, and that the plant, instruments, access equipment and tools are fit for purpose - appropriate industry standards and regulations - 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 design - organisational procedures - the applications, advantages and limitations of types of personal protective equipment - the industry recognised methods for determining the type, size and rating of Domestic Ventilation Systems and associated equipment, accessories and components in relation to the system design and identifying alternatives where required - how to interpret diagrams and drawings for the Domestic Ventilation systems to locate site services - how to interpret diagrams and drawings for the Domestic Ventilation systems to identify the planned location of the equipment, accessories and components - the principles and practice of airflows (including measurements and relevant calculations)

	15. the methods and techniques for installing, fixing and connecting Domestic Ventilation systems and equipment, accessories and components in accordance with: • the system design • industry recognised methods • manufacturer instructions • the building fabrics • thermal considerations 16. the correct procedures for safe-isolation 17. methods and procedures for installing, fixing, connecting and terminating Domestic Ventilation systems and their associated equipment, accessories and components 18. methods and procedures for testing and verifying Domestic Ventilation systems and their associated equipment, accessories and components (including leakage testing) 19. how to manage resources effectively 20. how to provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: • hand over to the customer/client • any variations to the original system and/or its equipment/costs • customer/client acceptance of the completed work in accordance with organisational procedures 21. the organisational procedures for confirming with relevant others the appropriate actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum negative impact on the work to be undertaken 22. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 23. how to complete relevant documentation in accordance with organisational procedures
Scope	Working environments (internal and/or external) • Commercial • Industrial • Residential Site • an existing building or structure • new build construction – building or structure Site services • data transmission • drainage • electricity • telecommunications • water Domestic Ventilation Systems • Continuous Mechanical Extract Ventilation (MEV) ○ Mechanical Extract Ventilation ○ Decentralised Mechanical Extract Ventilation (dMEV) ○ Exhaust Air Heat Pump (EAHP) • Mechanical Ventilation with Heat Recovery (MVHR) ○ Whole house MVHR

- De-central MVHR (dMVHR)
- Single room heat recovery (SRHRV)
- Decentral push-pull MVHR
- Cascade MVHR
- Central MVHR (blocks of flats)
- Natural Ventilation with Intermittent Extract Ventilation (IEV)
- Positive Input Ventilation (PIV) – for Retrofit only

Domestic Ventilation Equipment

- air filters
- ductwork
- fans and blowers
- heat exchanger
- insulation
- leakage tester
- sensors
- supply and exhaust grilles
- system controls
- terminal devices

Organisation procedures

- accident reporting
- communication with relevant others
- customer services
- emergencies
- implementing and monitoring health and safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- information management
- project management
- risk assessment
- risk management

Plant

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

Relevant others

- client representatives
- customers/clients
- designer (or those responsible for the design)
- manufacturer
- members of the public
- other contractors/trades
- owner/occupier/landlord
- site/contract manager
- supervisors
- work colleagues

Documentation

	• as fitted • design • Operations and Maintenance (O&M) • regulatory requirements • relevant certification
BSDEV02	Diagnosing and Rectifying Faults in Domestic Ventilation Systems
Overview	This standard is for people who diagnose and rectify faults in Domestic Ventilation systems and equipment which may include Low Carbon Technology and Smart Technology. The person carrying out this work must be able to comply with the procedures and methods for diagnosing and rectifying Domestic Ventilation systems and equipment 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 different types of Domestic Ventilation systems and equipment their limitations, applications and the safe techniques for diagnosing and rectifying faults.
Performance Criteria	1. verify that job information and documentation is current and relevant and that the plant, instruments and access equipment are fit for purpose 2. 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 3. produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment 4. inform relevant others about any design issues identified within the scope and limitations of your own competence, responsibilities and accountability 5. identify and select the relevant tools, equipment, accessories and components and confirm that they are: • of the right type and size • fit for purpose in accordance with the system design 6. confirm a programme of work with relevant others in accordance with organisational procedures 7. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades 8. identify the correct means of electrical isolation prior to commencing installation and connection work 9. complete safe-isolation² as and when required to ensure the safe installation and connection of Domestic Ventilation systems and equipment 10. determine and obtain the resources required, as relevant, to undertake: • the identification and location of the fault(s) • the rectification of the fault(s) 11. select the instruments to be used 12. confirm that the instruments are fit for purpose and have a current calibration certificate 13. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades affected by:

² The individual must understand and apply safe isolation procedures, use GS38-compliant test equipment, identify the correct point of isolation, lock off supplies, label isolations, and confirm relevant Domestic Ventilation systems and equipment are dead using an approved voltage tester and proving unit. They must also be able to recognise dangerous conditions.

	- the identification and location of the fault(s) - the rectification of the fault(s) 14. identify, locate, diagnose and rectify faults 15. repair, remove and replace relevant equipment, accessories and components in accordance with industry recognised methods and procedures 16. ensure, if the fault(s) cannot be corrected immediately, the safety of the relevant equipment, accessories and components 17. inspect and test the repaired and/or replaced equipment, accessories and components, as appropriate and in accordance with industry recognised methods and practices 17. use resources efficiently in accordance with organisational requirements 18. confirm with relevant others: - those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact on the installation work to be undertaken - 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 installation to be undertaken 19. provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 20. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 21. complete relevant documentation in accordance with organisational procedures
Knowledge and Understanding	1. the scope and limitations of your own competence, responsibilities and accountability as it applies to your job role 2. the duty to report any acts or omissions that could be unsafe/detrimental to you or others 3. the applications, advantages and limitations of different Domestic Ventilation systems 4. the applications, advantages and limitations of Domestic Ventilation systems, appliances, components and accessories in relation to the working environment 5. the appropriate industry standards, regulations and design requirements relevant to the service and maintenance of Domestic Ventilation systems 6. how to verify that job information and documentation is current and relevant and that the plant, instruments, access equipment and tools are fit for purpose 7. the appropriate industry standards and regulations 8. 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 design - organisational procedures 9. the potential design-related issues that are within the scope and limitations of your own competence, responsibilities and accountability 10. the operation, applications, advantages and limitations of different Domestic Ventilation Systems 11. the organisational procedures and industry practices when carrying out the processes for the identification and rectification of faults for:

	12. advising relevant others about the potential disruption and consequences 13. confirming a programme of work with relevant others 14. ensuring the coordination of site services and the activities of other trades affected 15. how to determine and obtain the resources required, as relevant, to undertake: - the identification and location of the fault(s) - the rectification of the fault(s) 16. the principles and practice of airflows (including measurements and relevant calculations) 17. how to select the instruments to be used 18. how to confirm that the instruments are fit for purpose and have a current calibration certificate 19. the correct procedures for safe isolation 20. the techniques to identify, locate, diagnose and rectify faults (including leakage testing) 21. how to repair, remove and replace equipment, accessories and components in accordance with industry practices 22. how to ensure, if the fault(s) cannot be corrected immediately, the safety of the relevant equipment, accessories and components 23. the methods and processes to inspect and test the equipment, accessories and components as appropriate and in accordance with industry practices 24. how to manage resources effectively 25. how to provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 26. the organisational procedures for confirming with relevant others the appropriate actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum negative impact on the work to be undertaken 27. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 28. how to complete relevant documentation in accordance with organisational procedures
Scope	Working environments (internal and/or external) - Commercial - Industrial - Residential Site - an existing building or structure - new build construction – building or structure Site services - data transmission - drainage - electricity - telecommunications - water

Domestic Ventilation Systems

- Continuous Mechanical Extract Ventilation (MEV)
 - Mechanical Extract Ventilation
 - Decentralised Mechanical Extract Ventilation (dMEV)
 - Exhaust Air Heat Pump (EAHP)
- Mechanical Ventilation with Heat Recovery (MVHR)
 - Whole house MVHR
 - De-central MVHR (dMVHR)
 - Single room heat recovery (SRHRV)
 - Decentral push-pull MVHR
 - Cascade MVHR
 - Central MVHR (blocks of flats)
- Natural Ventilation with Intermittent Extract Ventilation (IEV)
- Positive Input Ventilation (PIV) – for Retrofit only

Domestic Ventilation Equipment

- air filters
- ductwork
- fans and blowers
- heat exchanger
- insulation
- leakage tester
- sensors
- supply and exhaust grilles
- system controls
- terminal devices

Organisation procedures

- accident reporting
- communication with relevant others
- customer services
- emergencies
- implementing and monitoring health and safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- information management
- project management
- risk assessment
- risk management

Plant

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

Relevant others

- client representatives
- customers/clients
- designer (or those responsible for the design)
- manufacturer
- members of the public

	• other contractors/trades • owner/occupier/landlord • site/contract manager • supervisors • work colleagues Documentation • as fitted • design • Operations and Maintenance (O&M) • pre-test • post works • regulatory requirements • relevant certification
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BSDEV03	Maintaining Domestic Ventilation Systems
Overview	This standard is for people who inspect and test Domestic Ventilation systems and equipment which may include Low Carbon Technology and Smart Technology. The person carrying out this work must be able to comply with the procedures and methods for inspecting and testing Domestic Ventilation systems and equipment 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 different types of Domestic Ventilation systems and equipment their limitations, applications and the safe techniques for maintaining them.
Performance Criteria	1. verify that job information and documentation is current and relevant and that the plant, instruments and access equipment are fit for purpose 2. 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 3. produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment 4. inform relevant others about any design issues identified within the scope and limitations of your own competence, responsibilities and accountability 5. identify and select the relevant tools, equipment, accessories and components and confirm that they are: • of the right type and size • fit for purpose in accordance with the system design 6. confirm a programme of work with relevant others in accordance with organisational procedures 7. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades 8. identify the correct means of electrical isolation prior to commencing installation and connection work 9. complete safe-isolation³ as and when required to ensure the safe installation and connection of Domestic Ventilation systems and equipment 10. determine at the outset, that the plans for maintaining the systems, appliances, components and accessories are in accordance with: • the system design • the working environment • manufacturer instructions • thermal considerations 11. accurately identify the cause of faults and those parts/components that need to be repaired/replaced 12. carry out maintenance activities and procedures in accordance with: • the system design • the working environment • manufacturer instructions 13. complete repairs/replacements as necessary

³ The individual must understand and apply safe isolation procedures, use GS38-compliant test equipment, identify the correct point of isolation, lock off supplies, label isolations, and confirm relevant Domestic Ventilation systems and equipment are dead using an approved voltage tester and proving unit. They must also be able to recognise dangerous conditions.

	14. use resources efficiently in accordance with organisational requirements 15. confirm with relevant others: - those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact on the installation work to be undertaken - 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 installation to be undertaken 16. provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 17. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 18. complete relevant documentation in accordance with organisational procedures
Knowledge and Understanding	1. the scope and limitations of your own competence, responsibilities and accountability as it applies to your job role 2. the duty to report any acts or omissions that could be unsafe/detrimental to you or others 3. the applications, advantages and limitations of different Domestic Ventilation systems 4. the applications, advantages and limitations of Domestic Ventilation systems, appliances, components and accessories in relation to the working environment 5. the appropriate industry standards, regulations and design requirements relevant to the service and maintenance of Domestic Ventilation systems 6. how to verify that job information and documentation is current and relevant and that the plant, instruments, access equipment and tools are fit for purpose 7. the appropriate industry standards and regulations 8. 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 design - organisational procedures 9. the potential design-related issues that are within the scope and limitations of your own competence, responsibilities and accountability 10. methods and procedures 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 design - the conditions of the working environment - organisational procedures 11. the methods for determining the type of size of replacement systems, appliances, components and accessories in accordance with industry recognised organisational procedures 12. how to interpret diagrams and drawings for the system to locate site services and system supply 13. how to interpret diagrams and drawings for system to identify the location of the systems, appliances, components and accessories

	14. the principles and practice of airflows (including measurements and relevant calculations) 15. the organisational procedures for confirming, 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 for taking appropriate action if a risk is present 16. the appropriate testing procedures for verifying the system integrity (including leakage testing) 17. basic fault-finding techniques 18. the methods and techniques for servicing and maintaining systems, appliances, components and accessories in accordance with: - the system design - the working environment - manufacturer instructions - thermal considerations 19. the methods and techniques for replacing/repairing the systems, appliances, components and accessories in accordance with: - the system design - the working environment - manufacturer instructions 20. how to manage resources effectively 21. how to provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 22. the organisational procedures for confirming with relevant others the appropriate actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum negative impact on the work to be undertaken 23. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 24. how to complete relevant documentation in accordance with organisational procedures
Scope	Working environments (internal and/or external) - Commercial - Industrial - Residential Site - an existing building or structure - new build construction – building or structure Site services - data transmission - drainage - electricity - telecommunications - water

Domestic Ventilation Systems

- Continuous Mechanical Extract Ventilation (MEV)
 - Mechanical Extract Ventilation
 - Decentralised Mechanical Extract Ventilation (dMEV)
 - Exhaust Air Heat Pump (EAHP)
- Mechanical Ventilation with Heat Recovery (MVHR)
 - Whole house MVHR
 - De-central MVHR (dMVHR)
 - Single room heat recovery (SRHRV)
 - Decentral push-pull MVHR
 - Cascade MVHR
 - Central MVHR (blocks of flats)
- Natural Ventilation with Intermittent Extract Ventilation (IEV)
- Positive Input Ventilation (PIV) – for Retrofit only

Domestic Ventilation Equipment

- air filters
- ductwork
- fans and blowers
- heat exchanger
- insulation
- leakage tester
- sensors
- supply and exhaust grilles
- system controls
- terminal devices

Organisation procedures

- accident reporting
- communication with relevant others
- customer services
- emergencies
- implementing and monitoring health and safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- information management
- project management
- risk assessment
- risk management

Plant

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

Relevant others

- client representatives
- customers/clients
- designer (or those responsible for the design)
- manufacturer
- members of the public
- other contractors/trades
- owner/occupier/landlord
- site/contract manager
- supervisors
- work colleagues

Documentation

- as fitted
- design
- Operations and Maintenance (O&M)
- regulatory requirements
- relevant certification

BSEDV04	Commissioning Domestic Ventilation Systems
Overview	This standard is for people who commission Domestic Ventilation systems and equipment which may include Low Carbon Technology and Smart Technology. The person carrying out this work must be able to comply with the procedures and methods for commissioning Domestic Ventilation systems and equipment 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 different types of Domestic Ventilation systems and equipment their limitations, applications and the safe techniques for commissioning them.
Performance Criteria	1. verify that job information and documentation is current and relevant and that the plant, instruments and access equipment are fit for purpose 2. 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 3. produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment 4. inform relevant others about any design issues identified within the scope and limitations of your own competence, responsibilities and accountability 5. identify and select the relevant tools, equipment, accessories and components and confirm that they are: • of the right type and size • fit for purpose in accordance with the system design 6. confirm a programme of work with relevant others in accordance with organisational procedures 7. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades 8. identify the correct means of electrical isolation prior to commencing installation and connection work 9. complete safe-isolation⁴ as and when required to ensure the safe installation and connection of Domestic Ventilation systems and equipment 10. confirm systems, appliances, components and accessories installed are: • correctly installed and functioning properly • of the right type and size • fit for purpose in accordance with the system design • suitable for the working environment in which they are installed 11. perform visual and manual checks to ensure that the systems, appliances, components and accessories have been fixed, fitted and connected in accordance with: • the system design • the working environment • manufacturer instructions 12. comply with industry practices and organisational procedures to ensure the co-ordination of site services and system supply and the activities of other trades

⁴ The individual must understand and apply safe isolation procedures, use GS38-compliant test equipment, identify the correct point of isolation, lock off supplies, label isolations, and confirm relevant Domestic Ventilation systems and equipment are dead using an approved voltage tester and proving unit. They must also be able to recognise dangerous conditions.

	13. inspect and pre-commission systems, appliances, components and accessories in accordance with: - the system design - the working environment - manufacturer instructions 14. confirm the integrity of the installed system using appropriate testing procedures 15. commission systems, appliances, components and accessories, adjusting safely and effectively the control features in accordance with: - the system design - the working environment - manufacturer instructions - thermal considerations 16. use resources efficiently in accordance with organisational requirements 17. confirm with relevant others: - those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact on the installation work to be undertaken - 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 installation to be undertaken 18. provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: - hand over to the customer/client - any variations to the original system and/or its equipment/costs - customer/client acceptance of the completed work in accordance with organisational procedures 19. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 20. complete relevant documentation in accordance with organisational procedures
Knowledge and Understanding	1. the scope and limitations of your own competence, responsibilities and accountability as it applies to your job role 2. the duty to report any acts or omissions that could be unsafe/detrimental to you or others 3. the applications, advantages and limitations of different Domestic Ventilation systems 4. the applications, advantages and limitations of systems, appliances, components and accessories in relation to the working environment 5. the appropriate industry standards, regulations and design requirements relevant to the commissioning of Domestic Ventilation systems 6. how to verify that job information and documentation is current and relevant and that the plant, instruments, access equipment and tools are fit for purpose 7. the appropriate industry standards and regulations 8. 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 design - organisational procedures 9. the potential design-related issues that are within the scope and limitations of your own competence, responsibilities and accountability

	10. the principles and practice of airflows (including measurements and relevant calculations) 11. methods and procedures 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 design • the conditions of the working environment • organisational procedures 12. the visual and manual checks required to confirm that the systems, appliances, components and accessories have been fixed, fitted and connected in accordance with: • the system design • the working environment • organisational procedures 13. the organisational procedures for confirming, 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 for taking appropriate action if a risk is present 14. the methods and techniques for inspecting and pre-commissioning the system in accordance with: • the system design • the working environment • manufacturer instructions 15. the methods and techniques for commissioning the system in accordance with: • the system design • the working environment • manufacturer instructions • thermal considerations 16. the appropriate testing procedures for confirming the system integrity (including leakage testing) 17. how to manage resources effectively 18. how to provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: • hand over to the customer/client • any variations to the original system and/or its equipment/costs • customer/client acceptance of the completed work in accordance with organisational procedures 19. the organisational procedures for confirming with relevant others the appropriate actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum negative impact on the work to be undertaken 20. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 21. how to complete relevant documentation in accordance with organisational procedures
Scope	Working environments (internal and/or external) • Commercial • Industrial • Residential Site

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

Site services

- data transmission
- drainage
- electricity
- telecommunications
- water

Domestic Ventilation Systems

- Continuous Mechanical Extract Ventilation (MEV)
 - Mechanical Extract Ventilation
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- Positive Input Ventilation (PIV) – for Retrofit only

Domestic Ventilation Equipment

- air filters
- ductwork
- fans and blowers
- heat exchanger
- insulation
- leakage tester
- sensors
- supply and exhaust grilles
- system controls
- terminal devices

Organisation procedures

- accident reporting
- communication with relevant others
- customer services
- emergencies
- implementing and monitoring health and safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- information management
- project management
- risk assessment
- risk management

Plant

- access equipment
- generators

- lifting equipment
- transformers for reduced low voltage hand-tools

Relevant others

- client representatives
- customers/clients
- designer (or those responsible for the design)
- manufacturer
- members of the public
- other contractors/trades
- owner/occupier/landlord
- site/contract manager
- supervisors
- work colleagues

Appropriate testing procedures

- leakage tests
- performance tests
- pressure tests for pipework systems
- system hygiene
- system charging

Documentation

- as fitted
- commissioning report
- design
- handover report
- Operations and Maintenance (O&M)
- pre-commissioning data
- relevant certification

BSEDV05	Decommissioning Domestic Ventilation Systems
Overview	This standard is for people who decommission Domestic Ventilation systems and equipment which may include Low Carbon Technology and Smart Technology. The person carrying out this work must be able to comply with the procedures and methods for decommissioning Domestic Ventilation systems and equipment 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 different types of Domestic Ventilation systems and equipment their limitations, applications and the safe techniques for decommissioning them.
Performance Criteria	1. verify that job information and documentation is current and relevant and that the plant, instruments and access equipment are fit for purpose 2. 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 3. produce a risk assessment and method statement for the work to be carried out, including the identification and use of personal protective equipment 4. inform relevant others about any design issues identified within the scope and limitations of your own competence, responsibilities and accountability 5. identify and select the relevant tools, equipment, accessories and components and confirm that they are: • of the right type and size • fit for purpose in accordance with the system design 6. confirm a programme of work with relevant others in accordance with organisational procedures 7. comply with industry practices and organisational procedures to ensure the co-ordination of site services and the activities of other trades 8. identify the correct means of electrical isolation prior to commencing installation and connection work 9. complete safe-isolation⁵ as and when required to ensure the safe installation and connection of Domestic Ventilation systems and equipment 10. decommission systems, appliances, components and accessories in accordance with industry practices and organisational procedures 11. ensure that the Domestic Ventilation system cannot be accidentally reactivated or become dangerous 12. use resources efficiently in accordance with organisational requirements 13. confirm with relevant others: • those necessary variations to the planned programme of work that may have the potential to introduce a hazard and/or impact on the installation work to be undertaken • 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 installation to be undertaken 14. provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of:

⁵ The individual must understand and apply safe isolation procedures, use GS38-compliant test equipment, identify the correct point of isolation, lock off supplies, label isolations, and confirm relevant Domestic Ventilation systems and equipment are dead using an approved voltage tester and proving unit. They must also be able to recognise dangerous conditions.

	• hand over to the customer/client • any variations to the original system and/or its equipment/costs • customer/client acceptance of the completed work in accordance with organisational procedures 15. implement organisational procedures for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 16. complete relevant documentation in accordance with organisational procedures
Knowledge and Understanding	1. the scope and limitations of your own competence, responsibilities and accountability as it applies to your job role 2. the duty to report any acts or omissions that could be unsafe/detrimental to you or others 3. the applications, advantages and limitations of different Domestic Ventilation systems 4. the applications, advantages and limitations of systems, appliances, components and accessories in relation to the working environment 5. the appropriate industry standards, regulations and design requirements relevant to the decommissioning of Domestic Ventilation systems 6. how to verify that job information and documentation is current and relevant and that the plant, instruments, access equipment and tools are fit for purpose 7. the appropriate industry standards and regulations 8. 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 design • organisational procedures 9. the potential design-related issues that are within the scope and limitations of your own competence, responsibilities and accountability 10. the organisational procedures for confirming, 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 for taking appropriate action if a risk is present 11. the methods and techniques for decommissioning the Domestic Ventilation system in accordance with: • the system design • the working environment • manufacturer instructions 12. the methods and techniques to ensure the system cannot be accidentally reactivated or become dangerous 13. the appropriate testing procedures for confirming the system integrity 14. how to manage resources effectively 15. how to provide clear and accurate information to relevant others about Domestic Ventilation systems and equipment in terms of: • hand over to the customer/client • any variations to the original system and/or its equipment/costs • customer/client acceptance of the completed work in accordance with organisational procedures 16. the organisational procedures for confirming with relevant others the appropriate actions to be taken to ensure that any variations to the planned programme of work will not introduce a hazard and have minimum negative impact on the work to be undertaken

	17. the methods for the safe transport and/or disposal of waste material, substances and liquids in accordance with supplier and manufacturer instructions 18. how to complete relevant documentation in accordance with organisational procedures
Scope	Working environments (internal and/or external) • Commercial • Industrial • Residential Site • an existing building or structure • new build construction – building or structure Site services • data transmission • drainage • electricity • telecommunications • water Domestic Ventilation Systems • Continuous Mechanical Extract Ventilation (MEV) ○ Mechanical Extract Ventilation ○ Decentralised Mechanical Extract Ventilation (dMEV) ○ Exhaust Air Heat Pump (EAHP) • Mechanical Ventilation with Heat Recovery (MVHR) ○ Whole house MVHR ○ De-central MVHR (dMVHR) ○ Single room heat recovery (SRHRV) ○ Decentral push-pull MVHR ○ Cascade MVHR ○ Central MVHR (blocks of flats) • Natural Ventilation with Intermittent Extract Ventilation (IEV) • Positive Input Ventilation (PIV) – for Retrofit only Domestic Ventilation Equipment • air filters • ductwork • fans and blowers • heat exchanger • insulation • sensors • supply and exhaust grilles • system controls • terminal devices Organisation procedures • accident reporting • communication with relevant others • customer services • emergencies

- implementing and monitoring health and safety requirements and issues
- implementing and monitoring issues relating to the natural environment
- information management
- project management
- risk assessment
- risk management

Plant

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

Relevant others

- client representatives
- customers/clients
- designer (or those responsible for the design)
- manufacturer
- members of the public
- other contractors/trades
- owner/occupier/landlord
- site/contract manager
- supervisors
- work colleagues

Documentation

- as fitted
- design
- operations and Maintenance (O&M)
- relevant certification