
Overview

This standard is about maintaining gas systems, installations, components and gas-fired plant. Maintenance can include cleaning, lubricating, adjusting, repairing and resetting. It is for the industrial part of the non-residential downstream gas industry. It can apply to gas systems, installations, components and gas-fired plant for any type of fuel gas or combinations of fuel gas.

It includes interpreting maintenance requirements, checking that required tools, equipment, materials and components are available, carrying out maintenance, identifying and correcting faults, working with other trades, ensuring work complies with legislation and liaising with supervisors.

Any person carrying out this role must have site specific competence relevant to the level of risk.

This standard is for those maintaining gas systems, installations, components or gas-fired plant in non-residential downstream, industrial properties.

Performance criteria

You must be able to:

1. work in line with plans, safe systems of work and risk assessments
2. carry out preparatory work as set out in maintenance plans
3. select and use tools and equipment that are appropriate for maintenance activities
4. ensure that isolation is carried out by appropriate people before starting work
5. work with other input service personnel to isolate electricity, water, ventilation and flue/extraction systems as required for gas maintenance activities
6. carry out cleaning, lubricating, adjusting, repairing and resetting in accordance with manufacturers' and industry standards
7. work in ways which minimise damage to customer property and building features at all times
8. use established fault finding techniques to diagnose and locate faults
9. repair faults in accordance with manufacturers' and industry standards
10. confirm that gas system, installation, components and gas-fired plant meet location, siting and clearances required by manufacturers' specification and industry standards
11. confirm and verify the suitability and performance of existing electrical, water, ventilation and flue/extraction systems
12. liaise and cooperate with people from other trades at appropriate points in the maintenance process
13. check that existing gas systems, installations, components and gas-fired plant are clean and free of debris
14. re-connect gas systems, installations, components and gas-fired plant when maintenance work is complete
15. use appropriate methods to prevent unauthorised use of un-commissioned gas systems, installations, components and gas-fired plant
16. liaise with responsible people and others who will be affected by work activities to minimise disruptions to work
17. comply with authorisation and verification processes that ensure correct working practices of other input services
18. access and interpret information contained in statutory and normative documents, industry standards, guidance documents and manufacturers' instructions to ensure that work is carried out to specification
19. advise all people who are affected by maintenance work about any delays as soon as they occur
20. report any delays in work schedules to job supervisors in line with agreed reporting procedures
21. advise responsible person(s) of any unsafe situations, and actions required to remedy those situations, without delay
22. ensure that isolation is lifted by appropriate people once work is completed
23. interact with customers at appropriate times during your work

Knowledge and understanding

You need to know and understand:

1. regulations and guidance governing health and safety in the workplace, environmental protection and the use of risk assessments
2. legislation covering general responsibilities for own safety and that of others
3. how to read and interpret maintenance plans
4. maintenance requirements for industrial gas systems, installations, components and gas-fired plant with which you are working
5. how to use plans, method statements and risk assessments
6. the tools and equipment necessary to provide safe access to work at heights, or in restricted or confined spaces
7. methods of working which protect the building décor, customer property and existing systems and components
8. the tools, equipment, materials and components required for maintenance activities
9. the care and maintenance requirements of tools and equipment, and checks for safe condition
10. how to safely secure and store tools, equipment, materials and components to minimise loss or wastage
11. steps to take when the required materials, components, tools and equipment are not available at the site
12. fault finding techniques, algorithms and manufacturers guidance
13. how to identify faults that are due to incorrect specification of systems, installations or components
14. how to carry out maintenance work including cleaning, lubricating, adjusting, repairing, replacing and resetting
15. how to purchase and obtain materials and components, availability, supplying, advising, checking and delivery procedures
16. potential hazards that could arise from maintenance activities
17. how to access and interpret required information including statutory and normative documents, industry standards, guidance documents and manufacturers' instructions
18. how to access manufacturers help lines
19. the range of industrial gas systems, installations, components and gas-fired plant, how they operate and their maintenance requirements
20. the requirements for installation and maintenance of cleanable filters, access doors and panels
21. how to confirm and verify that new or existing gas, electricity, water, waste water, ventilation and flue/extraction systems are suitable for gas systems, installations, components and gas-fired plant
22. the need to liaise with others whose procedures or routines may be affected by the suspension of gas-fired plant and gas system operation
23. when it is appropriate to work with other input service personnel to disconnect and re-connect, electricity, water, ventilation and flue/extraction systems
24. the points in the maintenance process where co-operation and liaison with other trades and those affected by the works may be required
25. the positioning and fixing requirements for gas systems, installations, components and gas-fired plant
26. precautionary actions to prevent unauthorised use of un-commissioned gas systems,

installations, components and gas-fired plant including isolation procedures and use of warning notices

27. maintenance reporting procedures

28. the regulations and requirements covering the installation of previously used (second hand) plant and equipment

29. hazard operability standards, failure mode, deficit analysis and hazard identification for industrial plant

30. the implications of your work on industrial processes

31. the impact of gas systems on industrial processes

32. the use of dynamic risk assessment in emergency situations how to communicate with customers and when it is appropriate to do so

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Maintain gas systems, installations, components and gas-fired plant in industrial properties



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