

SUMMES2 (SQA Unit Code - F9KH 04)

Apply environmental legislation, working practices and principles (mechanical services)



Overview

The unit covers a key area which focuses on the need for the person carrying out the work to adopt a positive attitude to using practices and procedures which protect the environment and promote efficient use of resources.

The person carrying out this work should be aware of the implications for the environment of work processes, and procedures, and where the job specification permits, should ensure that materials used minimise risks to the environment.

The person completing the work should also be aware of appropriate environmental technologies and should be able to advise on how such technologies could be utilised.

They should be aware of how their work relates to the environment and that all waste materials produced as a result of their work and which are their responsibility to dispose of, are dealt with according to current, relevant legislation.

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Performance criteria

- You must be able to:*
- P1 apply work procedures which are environmentally friendly
 - P2 in accordance with organisational procedures, identify and report materials, products or equipment that could potentially cause damage to the environment
 - P3 ensure that relevant people are advised of all system or component operating procedures that are intended to protect the environment
 - P4 handle potentially hazardous materials in a manner which complies with health and safety requirements
 - P5 follow workplace procedures and current, relevant legislation for the safe handling, storage and disposal of hazardous materials and products
 - P6 identify working practices that may harm the environment

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Knowledge and understanding

You need to know and understand:

- K1 the current, relevant legislation for dealing with waste (e.g. The Controlled Waste Regulations; Packaging Regulations; The Waste Electrical and Electronic Equipment Regulations (WEEE); The Special Waste Regulations; The Hazardous Waste Regulations)
- K2 where relevant, the Building Regulations (including energy efficiency requirements for new dwellings), the Code for Sustainable Homes, Water Supply Regulations
- K3 the potential implications for the environment of the work procedures used in installing or maintaining systems or components
- K4 prefabrication and installation methods that reduce material wastage
- K5 the legislation or recommendations governing the safe use and disposal of hazardous materials
- K6 the materials and products that are classed as hazardous to the environment and how to identify them
- K7 organisational procedures for the handling and disposal of hazardous materials and products
- K8 the materials and products that are classed as recyclable, how to identify them, and organisational procedures for dealing with them
- K9 the importance of reporting hazards to the environment that arise from work procedures within the scope of their area of responsibility and of ensuring that appropriate actions are taken
- K10 all relevant environmentally friendly materials, products and procedures
- K11 the possible uses and basic operating principles of environmental technologies including under floor heating, solar hot water heating, heat pumps (ground and air source), biomass, combined heat and power (CHP), combined cooling heat and power (CCHP), rainwater harvesting, grey water recycling
- K12 the possible uses of other environmental technologies such as solar photo voltaic, wind energy systems, micro hydro
- K13 where appropriate, the planning requirements for the integration of environmental technology within systems in new build situations and as additions to existing buildings
- K14 the importance of energy, and where relevant, water, efficiency considerations when selecting systems, equipment or components
- K15 the relevant information that needs to be passed to relevant people to ensure the correct and economical use of energy dependant systems
- K16 the general advice that can be given on methods of reducing waste of resources, and effecting savings, including environmental technologies

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