
Overview

This unit covers the skills and knowledge that you will need to carry out the installation operation, for non-illuminated sign products.

This involves the excavation of small foundations, the erection of sign supporting structures, assembling and securing sign products and configuring the structure for use according to specification following approved quality and company procedures.

This unit deals with the following:

1. Traffic management
2. Excavation
3. Erect sign supporting structures
4. Assemble and secure sign products
5. Configure installed structure for use

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

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Performance criteria

- You must be able to:*
- P1 Carry out the installation and excavation operation to legal requirements, workplace policies, manufacturers' instructions, work instructions, Health and Safety and environmental
 - P2 Check that the correct paper work accompanies the appropriate signs or components to be installed
 - P3 Check that the signs or components are free from damage before and after transportation to site
 - P4 Confirm resources are available and suitable to assemble the product to the specified
 - P5 Assemble and secure sign products without damage in accordance with the paperwork relevant to the job
 - P6 Ensure the correct traffic management is in place for both vehicular and pedestrian traffic, and that the site area is properly signed, fenced/barriered and secure
 - P7 Maintain the safety of yourself, colleagues and the public when handling supporting structures, materials and components
 - P8 Carry out manual excavations with due care for services
 - P9 Deal with problems in the implementation procedure and report those that you cannot
 - P10 Ensure the work area is left clean, tidy and in accordance with Health and Safety requirements and all waste is removed in line with company environmental policy
 - P11 Complete job records legibly and in accordance with organisational requirements

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Knowledge and understanding

You need to know and understand:

- K1 What the Health and Safety and environmental requirements are and how to follow them
- K2 Why it is important to keep the work instructions safe and accessible
- K3 The importance of complying with the workplace policies, manufacturers' instructions, work instructions, Health and Safety and environmental policies
- K4 What the consequences are to you and to others of not following workplace policies, manufacturers' instructions, work instructions, Health and Safety and environmental Health and Safety and environmental requirements
- K5 What the hazards associated with your working environment are and the risks they pose
- K6 When and why it is necessary to wear personal protective equipment (PPE)
- K7 How to obtain and select appropriate personal protective equipment (PPE)
- K8 Who the relevant personnel are
- K9 What problems may occur
- K10 What action to take if there are problems
- K11 Why risk assessments are important and why they are carried out
- K12 When to repackage picked up signs
- K13 The different paperwork relevant to the job
- K14 How to rectify and repair sign products and structures
- K15 What the relevant authorisation procedures are and how to follow them
- K16 How to interpret work instructions and establish requirements of the finished product
- K17 How to confirm resources are available and suitable to assemble the product to the specified
- K18 How to interpret specification and establish requirements
- K19 How to determine fastening and fixing methods and how to carry them out
- K20 The different types of positioning, securing devices and equipment and how they are used in installation
- K21 Why it is important to ensure that you carry out the work without excavation to services
- K22 How to operate CAT and genny scanning devices and significance of readings
- K23 Why it is important and how to ensure that the correct traffic management is in place for both vehicular and pedestrian traffic, and that the site area is properly signed, fenced/barriered and secure
- K24 Why it is important and how to ensure work area and is safe from

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- overhead and underground obstructions
- K25 Approved positioning
- K26 How to handle supporting structures and materials to be assembled safely to prevent damage and maintain the safety of the individual, colleagues and the public
- K27 When preliminary positioning is required
- K28 The different types of installation equipment, tools materials, personnel methods and techniques and when to use them
- K29 How to secure sign products
- K30 The time it takes to assemble
- K31 How to ensure that dimensions and positioning of sign supporting structures are accurate, within specified tolerances and the fixing methods and materials are appropriate for the sign product to be installed
- K32 What specified tolerances are important
- K33 How to check that supporting structures forming part of the sign product are clean, free from marks, scratches, chips and dust, within specified tolerances
- K34 What causes damage to products and how to prevent this
- K35 How to ensure that equipment and components are brought up to operating levels in a sequence which is safe and optimises the integration of the installation
- K36 How to achieve the required configuration within agreed timescales
- K37 How to interpret work instructions to establish optimum configuration for the required operating parameters of the installed product
- K38 How to configure installed structure for use in accordance with work instructions
- K39 How to confirm that the equipment, tools, materials, techniques and methods are appropriate for the configuration that is being carried out
- K40 What is regarded as waste and how to remove it

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Additional Information

Glossary

Simple Excavation:

1. Installation of steel or passive support structures less than up to and including 114mm outside diameter
2. Installation of signs manually not exceeding 2.5sq m in area mounted 2.1m above ground level on structures excluding gantries

Types of Positioning and Securing Devices: Jigs, clamps, hoists, lifts, portable towers, ladders, access equipment

Types of Products and Materials: Metal, wood, composite boards, plastics, vinyl, glass, fabric

Types of Equipment: Manual, automated, electronic, pneumatic

Types of Tools: Cutting, boring, assembling, bending, heat generating, holding

Types of Assembly Equipment: Jigs, clamps

Types of Installation: Fixed vertical non illuminated permanent road traffic signs

Types of structures: Post(s), cantilever, passive, no greater than 114mm outside diameter or similar

Types of foundation: Concrete no greater than 1m³, screw or driven depth no greater than 1000mm

Relevant Personnel: Line manager, supervisor, team leader etc

Transportation Methods: Manual, automated

Relevant Health and Safety and Environmental Requirements: What your responsibilities are in respect of health and safety and environmental requirements and legislation, regulations, safe working practices, local, national and organisational/site specific procedures, including CSCS (Construction Skills Certification Scheme) requirements when appropriate

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Suite SignMaking

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