

LANFe9 - SQA Unit Code HL4E 04

Place and fix vehicle restraint systems



Overview

This standard describes how to excavate, prepare and form foundations for vehicle restraint systems.

This standard is designed for a VRS installer working on highways.

This standard covers the following in relation to vehicle restraint systems:

- Place, position and fix posts
- Place and fix components to posts.

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Performance criteria

You must be able to:

- P1 carry out work in accordance with relevant health and safety legislation, risk assessment requirements and company policies
- P2 obtain components of specified type, material, quality and grade
- P3 select and prepare tools, equipment and resources into a safe condition ready for use
- P4 use recommended working practices to position and fix permanent supports at specified lines, levels and angles
- P5 use recommended working practices to assemble VRS systems to meet specifications
- P6 use recommended working practices to position, tension and securely fix assembled components at specified lines and levels
- P7 maintain the integrity of protective finishes during fixing
- P8 carry out work in a manner which causes minimal damage to the surrounding area
- P9 monitor signs and protective barriers in good working order within your level of responsibility
- P10 maintain tools, equipment and resources in a clean and serviceable condition throughout work
- P11 dispose of waste and excess materials safely to minimise environmental risk according to legal requirements

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Knowledge and understanding

You need to know and understand:

- K1 the health and safety requirements associated with placing, positioning and fixing VRS systems
- K2 the health and safety requirements associated with sign and barrier installation including permit-to-work schemes
- K3 the reasons for traffic management when working adjacent to highways and other transport systems
- K4 the types of signs and protective barriers used within the fencing industry
- K5 the methods used for assembling fencing and fencing components
- K6 the different types and construction of vehicle safety fencing systems
- K7 the components used in association with vehicle safety fencing including their uses
- K8 the methods used for handling and positioning posts
- K9 the methods used for providing temporary supports and aligning and levelling posts set in concrete
- K10 the reasons for, and methods of, setting posts to allow for tensioning
- K11 the factors that affect the positioning and the method of fixing posts and components
- K12 the types of backfill and methods of consolidation
- K13 the precautions to take to avoid distortion during the tensioning process
- K14 the methods used for fixing fence materials to posts
- K15 the different types of protective finishes
- K16 the reasons for and methods of maintaining integrity of protective finishes
- K17 the precautions to take to avoid distortions to fencing/fencing materials
- K18 how to deal with difficulties experienced during work within the relevant levels of responsibility
- K19 the reasons for the use of transitions and how they are installed
- K20 the reasons for the use of a terminal and how they are installed
- K21 the potential impact of your work on the surrounding area and how to minimise this

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