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### Overview

This standard covers the installation of hard-standing laying courses that are used within the landscaping industries.

The standard is suitable for operatives working under limited supervision and focuses on the skills required to understand the structure and to undertake the installation of hard-surface laying courses while working to specifications.

You will be expected to understand the impact of this work on the immediate environment, and the impact of the environment on the structure.

## Performance criteria

### You must be able to:

- P1 assess the risks associated with the site and the proposed work
- P2 select, prepare, use and maintain tools and equipment that are appropriate for the work safely and effectively
- P3 set out for line and level
- P4 place and prepare a suitable laying course
- P5 manually tivate the laying course at edges and around obstructions such as drainage access covers
- P6 manually make good the channel left by screed rails with minimum disturbance to or compaction of adjacent screeded areas
- P7 keep damage to the surroundings to a minimum
- P8 leave the site in a clean and tidy condition
- P9 clean and store tools and equipment promptly and securely
- P10 protect working areas effectively against weather and use until they are in a suitable condition
- P11 leave the site safe, tidy and suitable for its intended use
- P12 maintain effective working relations with relevant people throughout
- P13 carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies

### Knowledge and understanding

#### You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 the weather conditions that are appropriate for screed preparation
- K4 how to measure to ensure work is within tolerances
- K5 how falls, lines and levels are determined and set out
- K6 how to select the correct tools and equipment for screed preparation, including PPE
- K7 how to use the required tools and equipment safely and efficiently
- K8 how to calculate the expected surcharge and/or the screed depth required for a notched screed bar
- K9 the importance of using the correct type of laying course material
- K10 the importance of laying course grain shape, grain size, and moisture content to overall performance
- K11 the correct storage and protection conditions for laying course material
- K12 how the laying course is placed and prepared manually, how it is shaped to follow summits and hollows, and how its compaction is pre-determined
- K13 how channels formed by screed rails are made good
- K14 how mechanically-aided techniques can be used to prepare a screeded laying course for larger areas
- K15 how screeding can be carried out using existing fixed edges and/or screed rails
- K16 the size, mass, and type of compaction equipment suitable for the installation of laying courses
- K17 how compaction equipment is used, and the use of any required attachments
- K18 your responsibilities under current environmental and health and safety legislation, codes of practice and company policies

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## Glossary

PPE: Personal Protective Equipment

Tools and equipment:

- full screed bars
- notched screed bars
- screed rails
- vibrating plate compactors
- hand finishing tools (floats, trowels, short screed bars)

Techniques:

- pre-compacted
- uncompacted

Materials:

- fine aggregate for conventional paving
- coarse aggregate for permeable paving
- cement-bound material for rigid pavements

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