

# EUSMUNC08 (SQA Unit Code - FC00 04)

## Reinstate excavation and pavement surfaces after network construction operations



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### Overview

This national occupational standard defines the competence involved in interpreting instructions, planning, organising and adopting safe working practices for preparing and carrying out the reinstatement of excavations and the surfaces of highways and footway pavements by use of the appropriate sub-grade, sub-base and road-base materials and by suitable selection of surface materials including cold-lay bituminous and modular surfaces

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#### Performance criteria

*You must be able to:*

#### **Prepare for reinstatement of excavation and pavement surface**

- P1 confirm the location of the excavation and the holes and trenches in accordance with instructions and work specifications
- P2 carry out site specific risk assessment, and review in accordance with company procedures
- P3 select and wear the designated PPE
- P4 carry out safety related activities associated with working in the vicinity of hazardous materials
- P5 confirm the flexible, composite, rigid and modular pavement construction, verge, and natural ground for reinstatement is in accordance with statutory and regulatory Codes of Practice
- P6 carry out preparation procedures for reinstatement of excavation in accordance with statutory and regulatory Codes of Practice
- P7 protect supply apparatus and sub-structures in accordance with the relevant Codes of Practice
- P8 select stored materials for reinstatement, in accordance with the relevant Codes of Practice
- P9 select and confirm hand tools, powered tools and equipment are suitable to the materials to be used for reinstatement
- P10 check and confirm the hand tools, powered tools and equipment for reinstatement are in a condition suitable for use in accordance with the manufacturer's specifications and operational requirements
- P11 report remedial work and defects in the excavation that are outside the control of the job holder in accordance with organisational and operational procedures
- P12 carry out all work to approved procedures and practices and in compliance with statutory requirements

*You must be able to:*

#### **Carry out reinstatement of excavation and pavement surface**

- P13 confirm the condition of the new and reusable materials for backfill, sub-base, road-base and pavement surface, and cold-lay materials to be used for the reinstatement are fit-for-purpose and meet statutory and regulatory Codes of Practice
- P14 check and confirm the laying and compaction procedures of the materials, and the area and type of structure being reinstated, meet statutory and regulatory Codes of Practice
- P15 report defects and deficiencies in the laying and compaction of materials outside the control of the job holder in accordance with organisational and operational procedures

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- P16 maintain suitable conditions and security of the excavation throughout the reinstatement operations
- P17 replace ironwork, kerbs and edge constraints in accordance with relevant Codes of Practice
- P18 store and dispose of surplus materials in accordance with work instructions and statutory and regulatory Codes of Practice
- P19 complete the work by checking and confirming the quality and condition of the finished reinstatement, and the work site, conform to statutory and regulatory Codes of Practice

*You must be able to:*

#### **Use and communicate data and information**

- P20 use records to determine potential deep excavations, confined spaces and hazardous materials
- P21 use information in the work instructions and specification to determine the work site and area to be excavated
- P22 use approved procedures and practices and statutory requirements to determine the requirement for excavation support
- P23 check with designated personnel any circumstances where information appears incorrect
- P24 use organisational information systems to record and store data and information
- P25 follow all procedures where you are a lone worker

*You must be able to:*

#### **Resolve problems that arise from the excavation work**

- P26 report - to the designated person - any damage to supply apparatus and sub-structures
- P27 advise colleagues or managers where situations need them to intervene
- P28 refer matters outside the responsibility of the job role to the designated people using approved procedures
- P29 resolve day-to-day problems within the responsibility of the job role behaviour which underpins effective performance

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#### Knowledge and understanding

*You need to know and understand:*

##### **General**

- K1 the main responsibilities of the employer and employee under the Health and Safety at Work Act
- K2 the health and safety guidance governing work in excavations
- K3 the safe procedures for handling hazardous materials
- K4 organisational accident recording and reporting procedures
- K5 the range and use of personal protective equipment for the work

*You need to know and understand:*

##### **Reinstatement of excavations**

- K6 responsibilities of the employer and employee under the Health and Safety at Work Act for reinstatement work in excavations
- K7 the importance of wearing the correct PPE at all stages of the work
- K8 responsibilities of the employer and employee under the legislation applicable to new roads and street works for reinstatement works in excavations
- K9 legislation governing reinstatement of excavations
- K10 safe procedures for handling reinstatement equipment
- K11 different types of pavement surfaces including flexible, composite, rigid and modular pavement
- K12 the sub-surface requirements for each type of pavement surface
- K13 preparation procedures including edge trimming, surface formation, removal of loose debris, repair information
- K14 requirements of legislation including statutory and regulatory provisions
- K15 the types of excavation materials in excavations and possible defects, including backfill, sub-base, road base, and paved surface
- K16 the remedial actions to take when defects are encountered
- K17 the types of supply apparatus and sub-structures that may be encountered including utilities and other agencies
- K18 methods of protecting each of the supply apparatus and sub-structures
- K19 methods of segregating the different materials including, backfill, sub-base road-base, and pavement surface
- K20 methods of checking the condition of material that is to be reused
- K21 specifications for surface, sub-surface, and general reinstatement materials including fine fill materials; back-fill materials; granular sub-bases; cement bound excavated material, road base materials; bituminous road base materials; surfacing materials; concrete footways; modular surfacing; cold lay,
- K22 methods of storing or protecting excavated material to prevent deterioration
- K23 the hand tools, powered tools and equipment used for reinstatement work including hand and power tools, and motorised equipment

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- K24 maintenance requirements for hand tools, powered tools and equipment used for reinstatement work
- K25 legislation controlling the use of hand tools, powered tools and equipment
- K26 industry procedures and practices for excavation work including environmental, organisational, regulatory, emergency, operational, health, safety and environment compliance, relevant company procedures, and risk assessments
- K27 the roles and responsibilities of persons within the highways operations team
- K28 site management structures for highways operations
- K29 the importance of referring to the designated persons, problems that are outside the area of the job role responsibility
- K30 the procedures for reporting and recording job progress, problems, deviations to work programmes
- K31 make-up and materials used in pavement structures including new and re-usable.
- K32 materials for, backfill, sub-base, road base, and pavement surface including cold lay,
- K33 the types of surface finishes including flexible, composite, rigid and modular, verge and natural ground
- K34 the types of equipment used for compaction of materials including hand and power tools, and motorised equipment
- K35 the need to report any spillage from fuel and lubricants, and to safely prevent their spread, in accordance with company procedures
- K36 the maintenance requirements of compaction equipment
- K37 the methods to be used for compacting reinstatement materials
- K38 types of reinstatement, including holes and trenches and pavement surfaces
- K39 common defects in reinstatement including settlement and surface damage and remedial actions
- K40 specifications for materials in pavement structures including flexible, composite, rigid, modular and cold lay bituminous material
- K41 the reasons for ensuring correct storage conditions for materials

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#### Additional Information

##### Behaviours

**Behaviour which underpins effective performance**

**You work in a manner in which you:**

1. are vigilant to possible risks and hazards
2. treat people with civility

##### Glossary

**Supply apparatus** -the supply apparatus for utilities and other agencies, above and below ground services, built structures, and the natural environment (e.g. foundations, tree roots, natural watercourses)

**Approved procedures and practices** –environmental, statutory regulatory, emergency, operational, health and safety, organisational and company procedures, and risk assessments.

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