

# **EUSMUNC10 (SQA Unit Code - FA96 04)**

## **Joint materials by electrofusion processes on Utilities Network Construction**



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### **Overview**

This national occupational standard defines the competence involved in jointing material by electrofusion processes, involving the use of non- automatic and automatic techniques. The jointing process is required to be carried out in all weather conditions and in accordance with industry standards and specifications.

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### Performance criteria

*You must be able to:*

#### **Make joints using electrofusion techniques**

- P1 carry out site specific risk assessment, and review in accordance to company procedures
- P2 select and wear the designated PPE
- P3 work safely and ensure compliance with health, safety, environment and other regulations and guidelines
- P4 follow the job instructions and procedures accurately for preparing and making the joints
- P5 check quality and confirm the joint complies with the specified standard for completed joints
- P6 check that jointing and related equipment and consumables are as specified and fit for purpose
- P7 make the joints as specified using the correct electrofusion jointing technique
- P8 produce joints of the required quality and of the specified dimensional accuracy
- P9 shut down the equipment to a safe condition on completion of jointing activities
- P10 deal promptly with excess and waste materials and temporary attachments, in line with approved and agreed procedures

*You must be able to:*

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

- P11 follow all approved procedures and practices and statutory and regulatory requirements involved in the work activity
- P12 check with designated personnel any circumstances where information appears incorrect
- P13 use organisational information systems to record and store data and information
- P14 follow all procedures where you are a lone worker

*You must be able to:*

#### **Resolve problems which arise during jointing work**

- P15 report promptly - to the designated person - damage to supply apparatus or jointing equipment.
- P16 resolve day-to-day problems within the responsibility of the job role
- P17 refer matters outside the responsibility of the job role to the designated people using approved procedures
- P18 deal with emergency situations as they arise

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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:*

#### **Electrofusion jointing**

- K6 health, safety and environment legislation and environmental procedures relevant to the work activities
- K7 manual handling procedures
- K8 industry codes of practice and company procedures
- K9 how to interpret engineering specifications relevant to the activity
- K10 different stages that take place during the jointing process and the importance of allowing each phase to complete.
- K11 the need for pipe support, alignment and restraining whilst jointing, and the consequences of poor support and misalignment
- K12 cause and effect of defects and contamination
- K13 pipe specifications, compatibility, different types of materials
- K14 maintenance procedures, equipment calibration, consequences of poor maintenance
- K15 quality assurance procedures that can be applied
- K16 the correct reporting procedures

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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

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