

# CONDUCTIVE CONCRETE RETRO-FIT



## ACCREDITATION

Upon successful achievement learners will be issued with a Smart Awards accreditation.

## GRADING

Pass

## DURATION AND RATIO

1/2day experience/refresher. Trainer 1:8

## PRE-REQUISITE

This accreditation is available to anyone over the age of 16 who is capable of reaching the required standard. There are no barriers that restrict access or progression thereby promoting equal opportunity. It is expected however that learners will have a level of literacy adequate to cope with the assessment.

## ENTRY REQUIREMENTS

There are no formal entry requirements and Smart Awards will not restrict access on the grounds of prior academic attainment, age, employment, geographic location or any other grounds. There are no barriers that restrict access or progression thereby promoting equal have a level of literacy adequate to cope with the examination.

## SECTOR SUBJECT AREA (SSA)

5.2 Building and Construction

## AGE RANGE

16yrs plus

## SAFE PRACTICE

It is the responsibility of the centre in consultation with the assessor to ensure that risk assessments have been carried out. During this accreditation you must take account of the relevant worksite operational requirements, procedures and safe working practices.

## INTRODUCTION

This accreditation covers one module: Retrofit Installation of Cubis San-Earth Conductive Concrete. It provides learners with the skills and knowledge of the hazards and potential risks involved working on the highway ensuring they can safely excavate and provide an earthing solution using the retrofit correct method statement as approved by Cubis limited.

### *Learning Outcomes*

1. Know the processes, regulations and legislations associated with working in the installation of conductive concrete
2. Be able to use appropriate tools, equipment and personal protective equipment (PPE)
3. Be able to carry out excavation of the work area
4. Be able to carry out the installation of Cubis San-Earth conductive concrete in line with the method statement

### *Structure*

Learners must achieve 1 mandatory unit to pass.

### *Purpose*

Prepare for further learning or training and/or develop knowledge and/or skills in a subject area

### *Assessment Criteria*

- 1.1. Outline relevant legislation and official guidance to carry out your work and maintain safe and healthy work practices
- 1.2. Describe how you comply with environmentally responsible work practices to meet the requirements of current legislation and official guidance
- 1.3. Identify the hazards and risks associated with the working area and the proposed work and apply the necessary control measures
- 1.4. Outline the emergency planning procedures relevant to the work area.
- 1.5. Describe how to carry out identification and application of safe handling and disposal procedures for hazardous and non-hazardous materials.
- 1.6. Explain the importance of maintaining tools, equipment and personal protective equipment.
- 1.7. Know the organisational procedures to report and rectify inappropriate information and unsuitable resources, and how they are implemented
- 2.1 Select, prepare and use materials, components, tools and associated equipment to install Cubis San-Earth conductive concrete.
- 2.2 Demonstrate correct use of PPE requirements under the Personal Protective Equipment at work regulations and procedure for checking PPE is fit for purpose.
- 2.3 Locate and identify underground network plant including able to read utility prints.
- 2.4 Identify over ground signage and marker posts
- 2.5 Interpret plans and drawings and following instructions.
- 2.6 Identify marking and carry out pilot hole to identify and locate network plant infrastructure.

## EXPECTATIONS AT LEVEL 2

### Summary

Achievement reflects ability to select and use relevant knowledge, ideas, skills and procedures to complete well-defined tasks and address straightforward problems. It includes taking responsibility for completing tasks and procedures and exercising autonomy and judgement subject to overall direction or guidance.

### Knowledge and Understanding

- Use understanding of facts, procedures and ideas to complete well-defined tasks and address straightforward problems.
- Interpret relevant information and ideas.
- Be aware of the types of information that are relevant to the area of study or work.
- Demonstrate and/or work with knowledge and understanding of basic processes, materials and terminology.

### Application and Action

- Complete well-defined, generally routine tasks and address straightforward problems.
- Select and use relevant skills and procedures
- Select appropriate tools and materials and use safely and effectively (for example without waste)
- Adjust tools where necessary following safe practices
- Plan and organise both familiar and new tasks
- Identify, gather and use relevant information to inform actions
- Identify how effective actions have been

### Autonomy and Accountability

- Take responsibility for completing tasks and procedures
- Exercise autonomy and judgement subject to overall direction or guidance
- Show an awareness of others' roles, responsibilities and requirements in carrying out work

## ASSESSMENT

### Practical Assessment

Theory/Multiple choice questions.

## Assessment Criteria

- 2.7 Leave site secured, sign and guarded to the NRSWA requirements
- 2.8 Dispose of waste in line with legislation.
- 2.9 Safe use, storage and handling of materials, tools and equipment
- 3.1 Confirm that the location of excavation, cavity and trenches is in accordance with instructions and work specifications.
- 3.2 Carry out safe dig processes.
- 3.3 Use methods to track and locate underground services.
- 3.4 Demonstrate how to protect supply apparatus and sub-structures in accordance with relevant codes of practice.
- 3.5 Demonstrate the requirements to maintain conditions, safety and security of excavations and the site in line with operational and regulatory requirements
- 3.6 Backfill and reinstate to required specification
- 3.7 Store and dispose of waste and surplus materials in accordance with work instructions and statutory and regulatory Codes of Practice
- 3.8 Report any problems and record and store required data and information in organisational information systems.
- 4.1 Interpret the given information relating to the work and resources to confirm its relevance
- 4.2 Select the required quantity and quality of resources for the methods of work
- 4.3 Comply with the given contract information to carry out the work efficiently to the required specification and method statement
- 4.4 Use the correct personal protective equipment for the work activity and procedures for checking PPE is fit for purpose, including storing
- 4.5 Prepare and install conductive concrete to given working instructions to measure, mark out, protect, prepare, test, record and report
- 4.6 Safe completion of own work to meet the requirements of the method statement
- 4.7 Record and provide test and installation information in line with the method statement.
- 4.8 Maintain a clear and tidy workspace
- 4.9 Dispose of waste in accordance with current legislation