

UNDERGROUND SAFETY



ACCREDITATION

Upon successful achievement trainees will be issued with a Smart Awards qualification.

GRADING

Pass

DURATION AND RATIO

1-day experience/refresher. Trainer 1.10

PRE-REQUISITE

This qualification 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

18yrs 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 training you must take account of the relevant worksite operational requirements, procedures and safe working practices.

INTRODUCTION

This qualification covers Gas Testing and Cover Lifting. It provides learners with the knowledge and skills to identify the hazards and potential risks involved in working safely on or in proximity to underground structures and operational buildings.

Learning outcomes

1. Be able to work safely
2. Be able to carry out gas testing safely
3. Be able to demonstrate safe methods of testing for lifting covers before working underground
4. Know relevant health and safety legislation and industry good practice
5. Know the hazards of working in underground chambers or structures
6. Know how to carry out cover lifting safely

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

This qualification does not qualify an individual to enter a confined space. Those individuals who need to enter confined spaces **MUST** hold appropriate accreditation / qualification to enter confined spaces. Any references made in this material to confined spaces are for information only and to make learners aware of the risks and presence of gases that may also be present in confined spaces.

Assessment Criteria

- 1.1. Identify the hazards and risks associated with the working area and the proposed work.
- 1.2. Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice.
- 1.3. Use correct personal protective equipment (PPE).
- 1.4. Undertake equipment and tool safety checks.
- 1.5. Carry out work to minimise environmental damage.

- 2.1 Carry out a site-specific risk assessment
- 2.2 Use safe method adopted by industry for testing gas in chambers and operational buildings.
- 2.3 Use testing tools and equipment in accordance with work instructions.
- 2.4 Check condition of gas testing tools and equipment.
- 2.5 Perform gas and water test safely.

EXPECTATIONS AT LEVEL

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

- 3.1 Use correct manual handling methods.
- 3.2 Use tools and equipment used in the industry for lifting covers from joint boxes and manholes safely.
- 3.3 Remove and replace joint box and carriageway covers safely.
- 3.4 Use utility prints to aid in the location of chambers.

- 4.1 Outline the key health and safety legislation and industry good practice.
- 4.2 Outline the key health and safety regulations that need to be observed when working underground.
- 4.3 Describe how to use and maintain tools, equipment, and personal protective equipment.
- 4.4 Outline the emergency planning procedures relevant to the work area.

- 5.1 State the dangers when entering underground chambers or structures.
- 5.2 Outline the equipment used by industry for detecting gas.
- 5.3 Describe what needs to be done if gas is found.
- 5.4 State the types of gases.
- 5.5 State safe working in locations which, potentially, have hazardous gas.
- 5.6 Outline the reporting requirements where gas has been found.
- 5.7 Outline the requirements for water testing.
- 5.8 Describe how to keep own safety and safety of others.

- 6.1 State how to manage the risks associated with cover lifting.
- 6.2 State how to avoid injury to operatives and the public.
- 6.3 Outline the different covers used.
- 6.4 Describe how to identify polluted water in underground structures in line with environmental requirements.
- 6.5 State how to avoid damage to underground apparatus.