

SQA/SNIJIB



Training and Assessment Programme for SVQ level 3 Domestic Plumbing and Heating

**H94X 04: Apply Health and Safety and
Environmental Legislation in the Building Services
Engineering Sector**

**Section; Health and Safety
Stage 1**

Syllabus Codes HS.1 — HS 11

Learning and delivery guidance

It is recommended that teaching and learning take place in an environment where learners experience work conditions (workshop). The use of modern teaching and learning aids, eg 'smart' boards, and proprietary interactive teaching materials would also greatly enhance the learning experience.

The syllabus document is set out in a manner to allow the lecturer to determine the areas of work to be covered within a certain time frame. This Unit must be offered over the first period of 'off the job' training. It is presented in one syllabus section which concludes with a summative assessment. Satisfactory completion of this Unit will enable the learner to be awarded a Construction Skills Certification Scheme (CSCS) card.

The programme structure (The introduction) which outlines the progress of the Unit and its integration with the other Units of the qualification.

Assessment

A holistic approach has been adopted for the formative and summative aspects of this Unit. The content learned in this Unit must be complied with while working on site and while carrying out the practical sections of:

- H98E 04 Perform Electrical Work on Mechanical Building Services Systems.
- H98F 04 Install and Test Domestic Plumbing and Heating Systems.
- H98G 04 Service and Maintain Domestic Plumbing and Heating Systems.
- H98H 04 Inspect and Pre-commission Domestic Plumbing and Heating Systems.
- H98J 04 Commission Domestic Plumbing and Heating Systems.
- H98K 04 Decommission Domestic Plumbing and Heating Systems.
- K98L 04 Install Sheet Weathering Protection.
- H98M 04 Domestic Plumbing and Heating Final Competence Assessment

The content of this Unit should be delivered prior to the learner working in the centre's workshops.

Assessments will be undertaken using the SOLAR e-assessment method. This process is completed entirely online and randomly selects the assessment questions from a bank of questions which cover the Unit content. In this Unit there is one assessment to be completed by the first assessment period in the first year. (Refer to programme structure in the introduction.)

Syllabus

HS Introduction to health and safety legislation and normative documents

- ◆ The Health and Safety at Work Regulations sing Current Legislation and Approved Practices
- ◆ Electricity at Work Regulations sing Current Legislation and Approved Practices
- ◆ Reporting of Incidents, Disease and Dangerous Occurrences Regulations sing Current Legislation and Approved Practices
- ◆ The Gas Safety (Installation and Use) Regulations
- ◆ Control of Substances Hazardous to Health (COSHH) Regulations sing Current Legislation and Approved Practices (as amended)
- ◆ Work at Height Regulations sing Current Legislation and Approved Practices
- ◆ The Control of Asbestos Regulations sing Current Legislation and Approved Practices
- ◆ The Management of Health and Safety at Work Regulations
- ◆ Workplace Health and Safety and Welfare Regulations
- ◆ Personal Protection at Work Regulations
- ◆ Manual Handling Operations Regulations
- ◆ Provision and Use of Work Equipment Regulations
- ◆ Control of Noise at Work Regulations
- ◆ Construction (Design and Management) Regulations sing Current Legislation and Approved Practices
- ◆ Managing health and safety in construction. Construction (Design and Management) Regulations sing Current Legislation and Approved Practices Approved Code of Practice
- ◆ HSE Document: Health and Safety in Construction
- ◆ HSE document: Avoiding Danger from Underground Services
- ◆ HSE information sheet: Tower Scaffolds
- ◆ Any other relevant legislation

HS 1 General health and safety

The learner should have a basic understanding of:

- ◆ How the Health and Safety at Work Act, Regulations and Approved Codes of Practice affect the learner.
- ◆ Employer's responsibilities under the Health and Safety at Work Act.
- ◆ Responsibilities to yourself and to others under the Health and Safety at Work Act.
- ◆ How health and safety law is enforced.
- ◆ The powers of Health and Safety Executive (HSE) inspectors.
- ◆ The key features of health and safety signs in the workplace.

HS 2 Manual handling operations

The learner should have a basic understanding of:

- ◆ What manual handling operations mean in the context of an employee and what employers must do to protect employees from injury.
- ◆ The types of injury you could suffer from carrying out manual handling tasks.
- ◆ The parts of your body most likely to be affected by manual handling injuries.
- ◆ How to decide whether a manual handling activity is safe.
- ◆ What must be taken into account when making a manual handling risk assessment.
- ◆ The principles of good manual handling techniques.

HS 3 Reporting accidents

The learner should have a basic understanding of:

- ◆ The need to report injuries, accidents, certain diseases and dangerous occurrences to the Health and Safety Executive.
- ◆ Why you must report accidents to your employer.
- ◆ The need to record in the accident book all accidents that cause any injury whatsoever.
- ◆ What reportable injuries, dangerous occurrences and reportable diseases are.

HS 4 Personal protective equipment (PPE) at work

The learner should have a basic understanding of:

- ◆ When PPE should be worn.
- ◆ Why your employer must provide you with PPE.
- ◆ Why you must use the PPE provided by the employer.
- ◆ Why you must take care of PPE supplied for your use.
- ◆ Why you must report lost or damaged PPE to your immediate superior.
- ◆ The possible effects of not wearing PPE.
- ◆ The limitations of PPE.

HS 5 Health and hygiene

The learner should have a basic understanding of:

- ◆ The dangers of exposure to substances, such as asbestos.
- ◆ The importance of good personal hygiene when working with hazardous substances.
- ◆ How to reduce the risks of diseases carried by vermin.
- ◆ The welfare facilities required to be provided on construction sites.
- ◆ How to reduce the risks from hand-arm vibration and noise at work.

HS 6 Fire and emergency

The learner should have a basic understanding of:

- ◆ What to do in the event of an emergency at work.
- ◆ The types of fire extinguishers available and the types of fires they can each be used on.
- ◆ The importance of first aid following an accident.

HS 7 Work at height

The learner should have a basic understanding of:

- ◆ The importance of using the most suitable access equipment for the task.
- ◆ Only working from ladders or stepladders when the task is of low risk and short duration.
- ◆ Safety precautions to be taken when using scaffolds or mobile elevated work platforms.

HS 8 Work equipment

The learner should have a basic understanding of:

- ◆ Only using work equipment you have been trained and authorised to use.
- ◆ The importance of carrying out checks on equipment before use.
- ◆ Reporting any defects and not using defective equipment.
- ◆ The voltage limitations on electrical equipment used on site.
- ◆ The safe use of extension cables.

HS 9 Special site hazards

The learner should have a basic understanding of:

- ◆ The safety precautions to be taken before working in a confined space.
- ◆ The precautions to be taken when carrying out excavation work to reduce the risks from contact with underground services, falling materials, etc.
- ◆ The precautions to be taken when working near overhead power lines.
- ◆ The dangers to pedestrians from vehicles on site.

HS 10 Plumbing

The learner should have an understanding of:

- ◆ The types of materials used and their health implications.
- ◆ The types of gases used in pipe-joining procedures and their safety implications.
- ◆ The health implications of temperature and bacteria in plumbing installations.
- ◆ Electricity and electrical bonding in plumbing installations, particularly when making alterations to pipework.
- ◆ Safety implications of plumbing installations in confined spaces and other hazardous areas (underground, under floor, attics, etc).

HS 11 Safety in LPG (liquefied petroleum gas)

The learner should have an understanding of:

- ◆ Gas properties and hazards.
- ◆ Cylinder identification.
- ◆ Cylinder storage and handling.
- ◆ Emergency Procedures.
- ◆ Use of current Legislation and approved practices.