

Common Core

Unit – CC01 Work at Height in the Water and Waste Sectors

This training specification has been developed from the water process and utilities engineering technician standards. The specification details the **minimum** training specification, as agreed by industry employers, to deliver the skills and knowledge required to carry out work at height in the water and waste sector.

The specification details the requirements for **FIVE** separate categories. Candidates may be assessed and receive registration for a minimum of **ONE** or a **COMBINATION** of the following categories:

1. Ladders
2. Scaffolding
3. Gantries
4. MEWPS
5. Tripods and winches

The specification details the critical requirement of the activity to carry out the work outlined and does not preclude employers from adding to the skills and knowledge detailed by the specification in their own training programmes.

All work must be carried out to approved procedures and practices and in accordance with statutory health, safety and environmental requirements.

What does this specification look like?

Learners need to be able to:

- SWH1 Select and use personal equipment to access and egress work positions at height or below ground in the water & waste sector in accordance with company procedures
- SWH2 Demonstrate a safety conscious approach to the control of hazards associated with the activity whilst working and communicating effectively with other team members to achieve tasks

What do I need to take this module?

Candidates to be assessed as competent in this skill area shall have completed the modules shown below or have evidence demonstrating an equivalent level of competence:

1. Health, safety and the environment
2. SHEA water or waste management – providing basic HS&E awareness and an introduction to specific HS&E factors relating to the water sector
3. Risk Assessment

Performance Criteria

To achieve this unit, you will need to be able to:

General Requirements

- P1. Identify the work area to be accessed using company documentation, systems and work instructions
- P2. Select, inspect and wear required PPE in line with company procedures
- P3. Carry out a site specific risk assessment of the work area, identifying the hazards and implementing the control measures required
- P4. Apply and adhere to the control measures necessary to meet safety requirements for the work activity e.g. safety documentation, work instructions and method statements
- P5. Identify and comply with demarcation arrangements for the work area in accordance with company procedures (where applicable)
- P6. Carry out a pre use inspection of the tools and equipment to be used, checking condition and service information
- P7. Implement the safety requirements necessary for work at height in accordance with company procedures e.g. person in attendance, control of site, demarcation, barriers
- P8. Report and record incidents / defects in accordance with company procedures
- P9. Maintain accurate and up to date records
- P10. Store tools and equipment safely and securely and leave the work area in a safe and secure condition in accordance with company procedures. e.g. access equipment secured, demarcation / screening removed, gates locked

Task Specific – In addition, for **EACH** category to be taken you must be able to:

Category 1. Ladders

- P11. Carry out a pre use inspection of a ladder and the personal climbing fall arrest / restraint equipment to be used, checking condition and service information
- P12. Transport a ladder across the work environment in a safe and controlled manner in accordance with company procedures
- P13. Raise and secure a ladder against a structure to be accessed in a safe and controlled manner in accordance with company procedures
- P14. Use a ladder and personal work at height equipment to access a work position at height or below ground in the work environment
- P15. Lower and transport a ladder across a work environment in a safe and controlled manner in accordance with company procedures

Category 2. Scaffolding

- P16. Carry out a pre use inspection of an erected scaffold, checking condition and service information
- P17. Carry out a pre use inspection of the personal climbing fall arrest / restraint equipment to be used, checking condition and service information
- P18. Use a scaffold and personal work at height equipment to access and establish a work position at height or below ground
- P19. Monitor the condition and stability of the scaffold assembly during the work

Category 3. Gantries

- P20. Carry out a pre use inspection of the gantry access point, checking condition and access restriction devices (*where applicable*)
- P21. Carry out a pre use inspection of the personal climbing fall arrest / restraint equipment to be used, checking condition and service information
- P22. Access / egress a gantry and use personal work at height equipment to establish a work position

Category 4. Mobile Elevated Work Platform (MEWP)

- P23. Carry out a pre use inspection of a MEWP, checking condition and service information
- P24. Carry out a pre use inspection of the personal climbing fall arrest / restraint equipment to be used, checking condition and service information
- P25. Carry out pre use checks of the MEWP to be used in accordance with company procedures and manufacturer's instructions
- P26. Manoeuvre and position a MEWP in a work environment in accordance with company procedures
- P27. Use a MEWP and personal work at height equipment to access and establish a work position at height
- P28. Carry out an emergency procedure for a MEWP in accordance with company procedures and manufacturer's instructions

Category 5. Tripods and Winches

- P29. Carry out a pre use inspection of a tripod and winch, checking condition and service information
- P30. Carry out a pre use inspection of the personal climbing fall arrest / restraint equipment to be used, checking condition and service information
- P31. Carry out pre use checks of the tripod and winch to be used in accordance with company procedures and manufacturer's instructions
- P32. Position a tripod and winch in a work environment in accordance with company procedures

- P33. Use a tripod, winch and personal work at height equipment to access and establish a work position below ground
- P34. Carry out an emergency procedure for a tripod and winch in accordance with company procedures and manufacturer's instructions

Knowledge and Understanding

To achieve this unit, you will need to know and understand:

General Requirements

- K1. The principles of Health, Safety and Environmental legislation in relation to work on plant and apparatus e.g. Work at Height Regulations 2005 (WAHR)
- K2. The safety rules, policies and procedures relating to work in different environments e.g. safety documentation, demarcation
- K3. How to identify the plant / apparatus to be worked on
- K4. The range of equipment that can be used for working at height
- K5. The hazards associated with work at height or below ground in the water and waste sectors and how to deal with them
- K6. The appropriate PPE for work in at height or below ground and how to inspect, use and maintain it including:
 - a) Safety harness
 - b) Fall restraint system
 - c) Fall arrest system
- K7. How to carry out a site specific risk assessment relating to work at height
- K8. How to enter, exit and move around the work area in a safe manner and ensure the working area is safe for third parties
- K9. How to update, report and record information in accordance with company procedures e.g. maintenance reports, test results, acts of vandalism / terrorism
- K10. How to respond in the event of emergency situations in the work environment
- K11. How to leave the work area in a safe and secure condition e.g. access equipment secured, demarcation / screening removed, gates locked

In addition, for **EACH** category to be taken you will need to know and understand

Category 1. Ladders

- K12. How to inspect the service condition of ladders
- K13. How to store, transport and erect ladders
- K14. The methods for selecting, securing and positioning a ladder
- K15. How to use a ladder to access and egress a work position at height or below ground and its usage limitations

Category 2. Scaffold

- K16. How to inspect the service condition of an erected scaffold
- K17. How to correctly use scaffolding to access a work position
- K18. How to monitor the condition and stability of the scaffold assembly during the work

Category 3. Gantry

- K19. How to inspect the service condition of a gantries access points
- K20. How to identify gantry attachment points and the methods used for attachment

Category 4. Mobile Elevated Work Platform

- K21. How to inspect the service condition of a MEWP to be used
- K22. How to identify a MEWP's attachment points and the methods used for attaching to a MEWP
- K23. How to manoeuver and position a MEWP in a work environment
- K24. How to establish a safe and level base for the MEWP to operate
- K25. The effect of external factors on the operation of a MEWP
- K26. How to carry out an emergency procedure for a MEWP in accordance with company and manufacturer's instructions

Category 5. Tripods and winches

- K27. How to inspect the service condition of a tripod and winch to be used
- K28. How to identify a tripod and winches attachment points and the methods used for attaching to a winch
- K29. How to position a tripod and winch in a work environment
- K30. How to use a tripod and winch to access and egress a work position and its usage limitations
- K31. How to carry out an emergency procedure for a tripod and winch in accordance with company procedures

How will it be assessed?

To achieve this unit, you will need to be able to provide evidence of the performance criteria and the knowledge and understanding requirements listed above.

Assessment types:

1. External assessment – an external accrediting body will assess against a national minimum standard
2. Internal assessment process – a company led on-going assessment against requirements
3. End-point assessment - see assessment plan for further details here (will be EU Skills defined)

What type of evidence will be expected?

To achieve this unit, you will need to be able to provide evidence of the performance criteria and the knowledge and understanding requirements listed above.

Evidence types:

1. Ongoing local assessments
 - a) Assessment plan, review, feedback, standard assessment sheets
2. Knowledge based learning
 - a) Classroom, exams, assignments, Q&A sessions, e-learning modules
3. Evidence portfolios
 - a) Learning logs, photos, observation sheets

Assessment types and process

