

HYDROGEN SKILLS ACADEMY

SBT03 – Assemble & Install Small Bore Tubing Assemblies (Cone & Thread)

The Engineering Construction Industry Training Board (ECITB) SBT03 course provides essential knowledge and hands-on skills for the correct assembly, installation and maintenance of small bore tubing (SBT) systems. This course provides essential knowledge and hands-on skills for the correct assembly, installation and maintenance of small bore tubing (SBT) systems using cone and thread fittings. The course covers effective techniques for tube preparation, coning and threading, selecting and inspecting materials, using specialist tools and applying industry best practices to ensure accurate, safe and reliable installations.

This training provides the foundation knowledge and practical skills required to safely install, maintain and test cone & thread tubing systems. On successful completion, the delegate will be awarded an ECITB Certificate of Training (Stage 1 of the ECITB route to competence).

COURSE DURATION

- 1 day

PRE-REQUISITE

- Must hold an ECITB SBT01 training course within the past 12 months or hold a valid TSBT01 certificate.

CERTIFICATION

- ECITB certification of training – Valid for 12 Months
(Note: Learners are not deemed technically competent at Stage 1)

TRAINER

- Our trainers are certified assessors and have been accredited by ECITB

COST

- Price on application – maximum 5 delegates per course

NOTE

- This course is grant aided for ECITB registered employers

COURSE DETAILS

Health, Safety and Risk Awareness

- Key legislation, permits and safe systems of work
- Hazards with cone & thread systems (pressure, sharp edges, gas releases)
- Preventing incidents through isolation, depressurisation and PPE

Tubing Systems and Material Selection

- Applications and pressure ranges for cone & thread tubing
- Tube specifications, hardness and certification requirements
- Inspection for damage, corrosion and storage best practice

Cone and Thread Fittings

- Common brands, components and sealing methods
- Sour service and anti-vibration fittings
- Correct identification and interchangeability issues

Installation Skills and Tooling

- Safe use of coning and threading tools
- Assembly and make-up sequence (lubrication, collar placement, torqueing)
- Preventing faults such as over/under torque and incorrect tooling

Tube Bending and Routing

- Specialist bending tools (not standard benders)
- Measuring, marking and accurate bending techniques
- Supporting and routing to control stress and vibration

Safe Dismantling, Pressure Testing and Reinstatement

- Safe isolation, depressurisation and dismantling practices
- Pressure testing assemblies to specification
- Reinstatement, documentation and housekeeping

Assessment

- 20-question written knowledge test (80% pass mark)
- Practical exercises

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