

HYDROGEN SKILLS ACADEMY

SBT01 - Assemble & Install Small Bore Tubing Assemblies (Twin Ferrule)

The Engineering Construction Industry Training Board (ECITB) SBT01 course provides essential knowledge and hands-on skills for the correct assembly, installation and maintenance of small bore tubing (SBT) systems. The course covers effective techniques for handling tubing assemblies, selecting and inspecting materials, working with twin ferrule fittings and applying industry best practices to ensure accurate, safe and reliable tubing installations.

This training provides the foundation knowledge and hands-on skills required to safely install and maintain twin ferrule fittings and 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

- 2 days

PRE-REQUISITE

- This course is aimed at learners with no previous experience in small-bore tubing training

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

- Understanding the Health & Safety at Work Act and permit-to-work systems
- Identifying hazards and implementing control measures in tubing systems
- Preventing hydrocarbon releases and learning from past incidents

Tubing Systems Fundamentals and Material Selection

- Differentiating tubes and pipes: advantages, applications and selection criteria
- Inspecting, certifying and preventing corrosion in tubing
- Understanding material grades and galvanic compatibility

Fittings, Tooling and Installation Techniques

- Identifying, assembling and reassembling twin ferrule fittings
- Correct use of tools and inspection gauges
- Recognising and preventing common fitting faults

Installation Skills and Drawing Interpretation

- Tube bending and precision measurement techniques
- Clamping, supporting, routing and controlling vibration
- Reading P&IDs, isometrics and hook-up diagrams

Pipe Thread Identification and Sealing Methods

- Recognising BSP, NPT, BSPP and JIC threads
- Correct sealing methods and thread identification techniques

Safe Dismantling, Pressure Testing and Reinstatement

- Isolation procedures and safe depressurisation practices
- Gas monitoring and pressure testing safety
- High-pressure hazards and injury prevention

Assessment

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

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