

# HYDROGEN SKILLS ACADEMY

## BFPA Accredited Small Bore Tubing Integrity Course

The British Fluid Power Association Accredited Small Bore Tubing Integrity Course is aimed at personnel involved in the manufacture and inspection of Small Bore Tubing Assemblies using twin ferrule compression fittings. On successful completion delegates will be able to demonstrate that they have gained the appropriate skills, knowledge & ability to work with Twin Ferrule Compression Fittings.

On successful completion, the delegate will be registered on the BFPA Database and receive a certificate together with a high quality course book.

### COURSE DURATION

- 1 day

### PRE-REQUISITE

- This course is aimed at learners with no previous experience or knowledge with regards to small bore tubing integrity

### CERTIFICATION

- BFPA certificate of skills achievement

### TRAINER

- Our trainers are certified assessors, and have been accredited by BFPA

### COST

- Price on application – maximum 6 delegates per course

### COURSE DETAILS

#### Twin Ferrule Compression Fittings

- Correct tightening, including the use of gap gauges
- Pre-swaging
- Disassembly & reassembly
- Common installation problems
- How to identify fittings
- Different manufacturers
- Metric & imperial
- Installation of port connectors, plugs & caps
- Assembly procedures for tube insert and plastic tubing

#### Tube Versus Pipe

- Definition of tube & pipe
- Advantages of tubing over pipe
- Bending quality tube and the use of less fittings
- Tube selection
- Tube materials & wall thickness
- Working pressure & temperature
- Good & bad tube storage
- Tube Preparation
- Correct handling of tube
- Tools and how they should be used for preparing tube

#### Tube Bending Principles & Planning the Route

- Main parts of a tube bender
- Calculating tube gain & offset bend allowance
- Marking & setting of tube in Bender
- Producing various bends in tube
- Good & Bad practice for tube runs

#### Associated Threads

- Correctly identify end terminations by following 8 steps
- Main Characteristics of common tube end terminations
- How to correctly tighten adjustable elbows

#### Assessment

- Knowledge & practical