



# SBT: Design Elements

## ■ Target Audience

This ECITB approved course is aimed at existing and graduate design/engineering discipline personnel who require increased awareness of small bore tubing design in accordance with Energy Institute (EI) guidelines and industry best practices.

## ■ Course Length

2 Day

## ■ Practical Content

50%

## ■ Theoretical Content

50%

## ■ Course Aims

To provide delegates with an awareness of the EI SBT guidelines and associated industry best practice in relation to instrument hook ups, close coupling, vibration mitigation and identification, and avoidance of static and dynamic loads, which will affect SBT systems over time. This practical course also aims to provide delegates with an understanding of the calculations used to determine the design of the recoils, the EI guidelines and surrounding support spacing, and tube bending arrangements through theoretical instruction and practical activities.

## ■ Course Content

- HCR safety moment
- SBT considerations and parameters
- Design deliverables
- Materials selection and corrosion
- SBT connections
- Vibration
- Static and dynamic loading
- Close coupling and valve selection
- Knowledge testing – practical and written

## ■ Course Delivery

Classroom & Training workshop

## ■ Times of Training

08.30 – 17.00

## ■ Certification

ECITB Certificate of Training (**Learners are not considered technically competent at Stage 1**).  
*Candidates will be issued with work based task assignment personal records to be used in Stage 2.*

## ■ Instructor

Certified trainers.

## ■ ECITB Approved Training Academies

### Swagelok Scotland, Aberdeen

1 Kingshill Park, Venture Drive, Westhill, Aberdeen, AB32 6FL

### Swagelok Scotland, Motherwell

19 Glasgow & Edinburgh Road, Newhouse, Motherwell, ML1 5GJ

### Swagelok Teesside

STEM Centre, Middlesbrough College, Windward Way, Middlesbrough, TS2 1QG

## ■ Contact

Onsite and offshore courses are available. For further details, please contact our training team at [scots.training@swagelok.com](mailto:scots.training@swagelok.com) or call +44 (0)1224 759916.

**PART NUMBER:**  
TSG-SBT DESIGN ELEMENTS