

## Introduction to Small Bore Tubing

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**Duration** 90 Minutes

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**Target group** Oil & Gas Industry (Onshore & Offshore)

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**Prerequisites** No prerequisites are required to sit this course.

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**Objective**

- LO1: Explain what Small Bore Tubing Assemblies are and what they are used for
- LO2: Describe the potential issues and consequences associated with SBT assemblies
- LO3: Outline measures every person can take to reduce SBT incidents
- LO4: Describe the types of engineering drawings used in the assembly and installation of SBT
- LO5: Identify common symbols used on engineering drawings
- LO6: Explain the importance of following engineering drawings correctly
- LO7: Specify the differences between tubing and pipe
- LO8: Describe tubing specifications
- LO9: Explain how to prepare, handle and store tubing correctly
- LO10: Specify the tools used for working with tubing
- LO11: Outline best practice for marking, cutting and bending tubing
- LO12: Identify common issues associated with cutting and bending tubing
- LO13: Explain why expansion loops are required in tubing runs
- LO14: Describe twin ferrule mechanical grip fittings and how they work
- LO15: Explain how to assemble fittings correctly
- LO16: Identify common faults associated with assembling fittings
- LO17: Explain how to disassemble fittings correctly
- LO18: Explain how to reassemble fittings correctly
- LO19: Describe some of the equipment required to ensure a good seal
- LO20: Recognise the support systems for SBT assemblies
- LO21: Describe the correct use of clamps
- LO22: Explain why vibration is a concern in SBT assemblies and how it can be minimised

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**Contents**

This aim of this course is to provide you with an overview of small bore tubing, the risks associated with it, and how to mitigate those risks. You will gain an understanding of what twin ferrule mechanical grip fittings are and how to use them, as well as how to assemble, disassemble and reassemble fittings and associated support systems.

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**Exam** The assessment is taken during the course and is within the expected duration.