

agileEMI Equipment Maintenance Institute: Fittings Technologies

Who should attend?

Primarily designed for equipment engineers, maintenance technicians and other individuals authorized to perform maintenance activities, this course is also useful to anyone working in and around factory settings where equipment maintenance is performed.

Course Description

This course is designed to teach the principles of fittings technologies. A hands-on training format with practical exercise kits, this class also incorporates lecture, demonstration and visual aids. Safety information is integrated into each module.

Course Modules & Objectives

After completing this course, students will be able to:

- Correctly identify fittings and (where applicable) their components
- Correctly prepare and assemble fittings
- Correctly disassemble fittings
- Visually inspect fittings for defects
- Correctly identify defects in fittings

Introduction: Initial Discussion

- What tubing material do you use?
- Should you de-burr the tubing or not?
- How far should you insert the tubing into the fitting?
- What is the alignment or order of the ferrules in the fitting?
- What size wrench(es) should you use?
- What torque (or tightness) should be used?

Module One: Tubing Connections

- Swagelok fittings
- Ferulock fittings
- Intru-lock fittings
- TrueSeal fittings
- Seal fittings
- Triple-Lok fittings
- Flare fittings
- Quick disconnect
- VCR & VCO fittings

Module Two: O-Rings

- Permeability
- Vapor pressure
- Seal failure
- O-ring failure



Module Three: Vacuum Flanges

- KF
- ISO large
- ANSI and ASA
- Conflat

Module Review: Course Summary

- Competency test
- Wrap up

Self and Peer Reviews

Registration Information

Prerequisites:
none
Course Length: 4 hours
Course Type: Instructor-led
Course Number: ATCP.FITT.101

about agileTCP

agileTCP (www.agileTCP.com) is a knowledge management and training solutions company based in Austin, Texas that provides technology-driven solutions by working with clients to transform, control and package business intellect. Since 1996, agileTCP has been meeting and exceeding the training and knowledge management needs of companies worldwide. Our proven techniques, methodology and subject matter expertise have maximized business value for our clients, including increased operational efficiencies of over 80%, reduced training costs of over 40% and substantially increased revenue across our client base. For more information on agileTCP, please visit www.agileTCP.com or call 512-732-2223.