

agileEMI Equipment Maintenance Institute: Fastener 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 fastener technologies, including the proper technique for using fasteners. 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 fasteners and (where applicable) their components
- Correctly prepare and assemble fasteners
- Correctly disassemble fasteners
- Visually inspect fasteners for defects
- Correctly identify defects in fasteners

Introduction: Decision Overview

- Determining size (diameter, length, thread pitch)
- Head shape
- Shank configuration
- Material (strength or grade)
- Washers (necessity, number and locations)
- Torque (or tightness)

Module One: Fastener Identification

- Bolts & Screws (principle components, materials and markings)
- Washers (types and purposes)
- Nuts (types and purposes)

Module Two: Insertion & Removal

- Fastener pre-load
- Torque (or tightness)

Module Three: Fastener Damage

- Head damage
- Thread damage
- Shank damage



Module Four: Repair

- Head damage (easy out)
- Thread damage (cutting threads, threaded inserts)

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.FAST.101

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