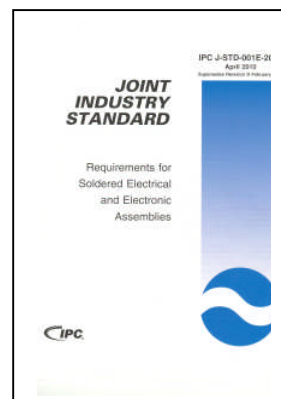


# J-STD-001E Certified IPC Specialist

## COURSE DESCRIPTION

J-STD-001 Certified IPC Specialist is a comprehensive, knowledge-based series of Courses that certify students to the methods and procedures presented in the J-STD-001 document. Designed for experienced operators, the series helps workers Interpret the J-STD-001 specification through lecture, demonstration and labs. The program is divided into 5 one day modules, plus you can add the Space Addendum each covering a different Technology or area of soldered electronic assemblies. Students may be trained and certified in any combination of modules that includes module 1. These courses address all three classes of manufacturing in Wires and Terminals, Through-hole and Surface Mount Technologies.

\*For on-site training, this course can be taught in either Lead or Lead-free Solder.



## COURSE OUTLINE

### DAY 1 - MODULE 1 OVERVIEW OF J-STD-001

Students will learn the requirements of J-STD-001 and related standards as they apply to operators and inspectors involved in the assembly of products to the requirements of J-STD-001.

**Module 1 is a prerequisite to all other modules.**

- Course Overview
- Safety
- EOS/ESD
- Classes of Equipment
- Solder Theory
- Solderability
- Solder Flux and Solder Alloys
- Facilities, Tools & Equipment Training
- PTH - Assembly/Solder
- Surface Mount Technology
- Cleaning
- Module 1 Review
- Module 1 Examination

### DAY 2 - MODULE 2 - WIRES & TERMINALS

Students will learn the requirements of J-STD-001, and demonstrate the skills for stripping and tinning wire and hand soldering wires of different gauges to various types of commonly used solder terminals.

- Wire Preparation
- Solder to Terminals
- Terminal Inspection
- Wire & Terminal Demonstration
- Wire & Terminal Lab
- Module 2 Review
- Module 2 Examination

### DAY 3 - MODULE 3 - THROUGH-HOLE TECHNOLOGY

Students will learn the requirements of J-STD-001, and demonstrate the skills for preparing and mounting Through-Hole components to PWBs.

- Lead Preparation
- Component Mounting
- PTH Inspection Criteria
- PTH Soldering Demonstration
- PTH Lab
- Module 3 Review
- Module 3 Examination

## J-STD-001 Certified IPC Specialist (cont.)

### DAY 4 - MODULE 4 - SURFACE MOUNT TECHNOLOGY

Students will learn the requirements of J-STD-001, and demonstrate the skills for preparing and mounting Leaded and Leadless Surface Mount components to PWBs.

- SMT Criteria
- SMT Inspection Criteria
- SMT Demonstration
- SMT Lab
- Module 4 Review
- Module 4 Examination

### DAY 5 - MODULE 5 - INSPECTION METHODOLOGY

Students will learn the quality and inspection requirements of J-STD-001.

- Theory of Inspection, SPC
- Defect Definition and Disposition
- Inspection Skills Demonstration
- Inspection Skills Lab
- Module 5 Review
- Module 5 Examination

Hand tools soldering station of new generation and microscope for each workbench  
Circuits, Components and a Handbook are provided.



**Now Available!**  
IPC J-STD-001DS  
Space Addendum  
Certification

**The module 6 (space Addendum)** provides additional requirements over those published in IPC J-STD-001 to ensure the reliability of solder electrical and electronic assemblies that must survive the vibration and thermal cyclic environments getting to and operating in space.

- Introductions and unique facility requirement
- Purpose and intended use of J-STD-001ES
- J-STD-001ES Criteria
- Testing

**An IPC Certificate will be given to the Student at the end of Training if he or she succeeds.  
The IPC Certificate is valid for 2 Years and during that time you can add any modules.**



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