



J-STD-001F 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, 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

TEKTRO Centre Accrédité IPC

Donald Héту (MIT)

André Baune (MIT)

NEQ : 2264218357

Certificat d'agrément : 0054146

www.soldering-course.com

502 Rue Valois, Unité 102

Vaudreuil-Dorion, Québec

J7V-1T4, Canada

Tél.; (514) 445-2910

donald@tektro.ca



IPC A-610,
IPC HWMA 620
ANSI-J-STD 001
IPC 7711/7721

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.

**An IPC Certificate will be given
The IPC Certificate is valid for 2**

**ning if he or she succeeds.
can add any modules.**

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