

POWER YOUR POTENTIAL

IPC-J-STD-001 for Operators

Created and presented by trusted and experienced IPC experts, this course offers practical, job-specific knowledge that connects IPC Standards with actionable on-the-job skills. This course is available on demand as well as instructor-led and can be integrated into comprehensive company training programs.



Access: IPC EDGE Learning Management System Type of Course: Available in both instructor-led and self-paced formats Approximate Length: 4-6 hours Prerequisites: Electronics Assembly for Operators Credentials: Qualified IPC J-STD-001 Operator

- COURSE OBJECTIVE AND OVERVIEW

After completing this course, you will be able to effectively navigate, locate, and apply the criteria specified in the IPC J-STD-001 standard in your role as an electronics assembly line operator, technician, or supervisor.

1. General Standard Information and Requirements:

- Identify scope and purpose of J-STD-001 standard
- Recognize product classifications
- Distinguish acceptable, process indicator, and defect conditions
- Identify order of precedence
- Understand common terms used in J-STD-001
- 2. General Materials, Soldering & Assembly and Product Assurance Requirements:
 - Identify requirements for materials, including solder alloys and flux
 - Identify components, tools, and equipment requirements
 - Define solderability and requirements for component surface finishes removal
 - Recognize thermal protection and handling parts requirements
 - Identify soldering connection requirements and acceptance
 - Describe product assurance requirements
 - Describe rework and repair process requirements

3. Wires, Terminals & Component Mounting

- Identify basic requirements and acceptance for wire preparation and terminal mounting
- Describe requirements for soldering to terminals
- Distinguish requirements for jumper wires
- Differentiate between supported and unsupported holes
- Identify lead protrusion requirements
- Distinguish requirements for soldering through hole components
- Identify requirements for surface mount connections

4. Cleaning, PCB and Conformal Coating Requirements

- Identify general cleanliness requirements
- Differentiate delamination, blistering, conductor separation, lifted lands, measles, and depanelization requirements
- Identify requirements for conformal coating, encapsulation, and staking

For complete course descriptions and registration information, contact sales@ipc.org



POWER YOUR POTENTIAL www.ipc.org



IPC ELECTRONICS WORKFORCE TRAINING courses

include video presentations, clear text, detailed illustrations, interactive activities and practice quizzes, all formulated to make complex topics easy-to-understand and master. The topics are carefully selected to align with the skills and competencies vital to advancing an electronics career at any level.



– COURSE STRUCTURE

The IPC-J-STD-001 for Operators course builds upon the prerequisite course, Electronics Assembly for Operators, to explore one of IPCs flagship standards in the electronics industry. This course provides a practical introduction to the terms, concepts, and acceptably criteria of the IPC J-STD-001 standard as they apply to the role of the operators, technicians, and other assembly line staff. The course contains four mandatory modules and a final exam. A score of 75% is required to pass the final exam and earn the IPC credential.

Each learning module contains:

1. Learning Objectives

• Brief video introduces students to the content covered.

2. Pre-quiz

• Short, (3 to 5-questions) ungraded quiz designed to help students identify gaps in their knowledge.

3. Instructional Content

 "Bite-sized" segments of text, videos, graphics and activities that explain the key points of the Module content and provide opportunities to explore how to apply electronic assembly processes at work.

4. Post-quiz

• Five to ten-question quiz designed to help you confirm what you know, identify areas that still need work and quickly link back to the original content for review.

🕕 – Key Features

- Each module structured into micro-learning lessons
- Structured for self-directed and group learning
- Pre- and Post-Module Assessments
- In module knowledge checks & assessments
- Engaging content (photos, illustrations, animations & videos)
- Interactive exercises
- Instructor guide
- Glossary
- Links to external (additional) learning resources



POWER YOUR POTENTIAL www.ipc.org