

## ELECTRONICS ASSEMBLY FOR OPERATORS



**Details:** The Electronics Assembly for Operators course introduces the key tools, materials, and processes for operators working in electronics assembly. This course is designed to encompass the entire assembly process, including a customizable selection of Modules to address the current needs and future goals of operators and organizations.

### Course Objective & Overview

After completing this course, candidates will be able to employ the correct procedures for constructing Printed Circuit Board Assemblies (PCAs) within an electronics manufacturing facility

### Access

IPC EDGE Learning Management System

### Difference from IPC-A-610 & IPC J-STD-001

Electronics Assembly for Operators course is a Foundation Level course and prerequisite for IPC-A-610 for Operators and J-STD-001 for Operators and not an **alternative** for the IPC Endorsement/Certification programs: <https://www.electronics.org/ipc-certifications>

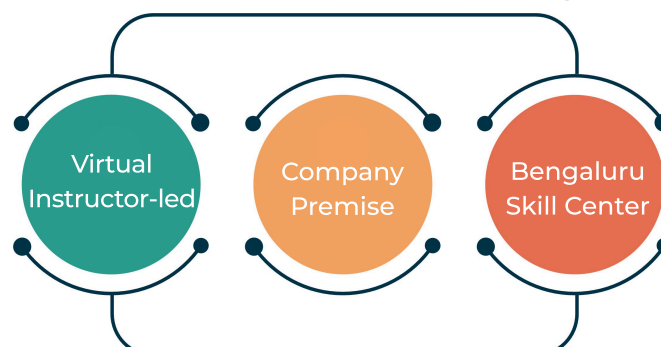
### Credential

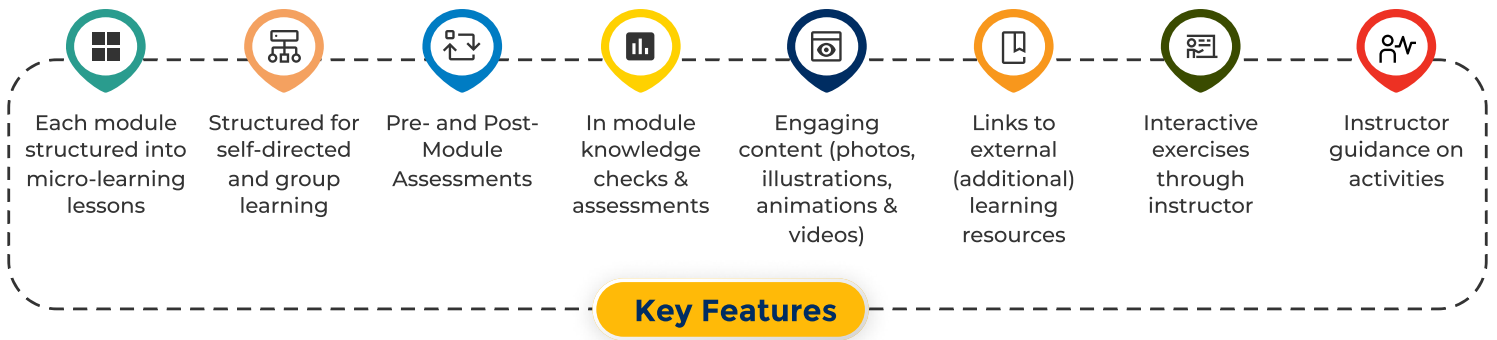
Qualified IPC Assembly Operator

### Course Structure

Contains nine mandatory modules and a final exam. A score of 80% is required to pass the final exam and earn the Global Electronics credential. There are nine additional modules to allow expanded learning on specific topics.

### Mode of Training





## Day 1 (8 hours)

### Mandatory Modules

1. Introduction to the Electronics Industry
2. Introduction to Printed Circuit Assembly (PCA)
3. Overview of Assembly and Soldering Processes
4. Safety
5. ESD & Product Handling
6. Component Identification

## Day 2 (8 hours)

### Mandatory Modules

7. Drawings, Specifications &
  8. Measurements
  9. Basic PCB/PCA Defects  
IPC Standards
- Final Exam: Modules 1-9 (90 minutes)

## Day 3 (8 hours)

### Optional Modules

#### Important for EMS Companies

10. Introduction to Hand Soldering
11. Surface Mount Technology
12. Through-Hole Technology
13. Hardware
14. Conformal Coating
15. Press Fit

*Note : There will be test after each module*

## Day 4 (8 hours)

### Optional Modules

#### Important for Cable & Wire Harness Companies

16. Wire and Cable Preparation
17. Wires and Terminals Technology
18. Cables and Harness Technology

## IMPORTANT NOTES

- GST applicable at 18% on the quoted price
- 100% payment to be made before 7 working days of the course commencement
- Minimum 10 & maximum 20 candidates/batch
- Company will share candidates name & details (as per Global Electronics Association format) 7 days in advance before commencement of the course
- Session can be organized on Saturdays
- Participation Certificate shall be provided to the candidates on Global Electronics Association India letterhead
- For In-house Training, Travelling charges to and fro and stay of trainer should be booked by members only
- For in-house training, the member company should arrange the necessary kits, practical tools, and equipment.

**For more information, please reach out to:**

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