



Safety for Electronics Manufacturing

SYLLABUS

This course introduces participants to the most common safety practices and workplace hazards in electronics manufacturing.

COURSE OBJECTIVE

After completing this course, you will be able to employ the key tools, materials, and processes designed to keep you and your coworkers safe within a manufacturing facility.

LEARNING OBJECTIVES PER COURSE MODULE

MODULE 1: GENERAL WORKPLACE SAFETY

- Define the risks associated with electronic assembly processes
- Describe the best practices of workplace safety
- Identify the basic types of safety signage for workers
- Identify hazards that can be minimized by the use of PPE
- Identify safety concerns related to improper handling

MODULE 2: PROCESS-SPECIFIC HAZARDS

- Identify the risks and precautions related to electrical safety
- Identify the risks and precautions related to chemical safety
- Identify the potential risks associated with the soldering process
- Identify the potential risks associated with the use of radiation-based equipment

MODULE 3: TOOL AND EQUIPMENT SAFETY

- Describe various risks associated with tools and equipment used in the electronic assembly

FINAL EXAM & CERTIFICATE OF COMPLETION

Once you have completed all 3 modules, you can take the final exam. You will have 25 minutes to complete 20 multiple-choice and true or false questions. The passing score for this exam is 80%. Students may attempt the exam up to three (3) times. Please note that a third and final attempt is permitted after 24 hours of the second attempt. Participants who attain the minimum score of 80% can access and download their IPC Certificate of Completion.

COURSE RESOURCES



Everything you need to successfully complete the ESD Control for Electronics Assembly course is included and available on the IPC EDGE Learning Management System.

IPC EDGE LEARNING MANAGEMENT SYSTEM

Upon accessing the course for the first time, take a moment to update your personal profile. IPC EDGE supports the most recent versions of Google Chrome, Firefox, Safari, Internet Explorer, and Microsoft Edge. Courses can be accessed on desktops, laptops, tablets, and mobile phones. Please refer to Browser Settings under the Start Here! Tab on your dashboard to make sure your browser is set to function seamlessly with the IPC Edge Learning Management System. If you need further technical assistance, please send an email to certification@ipc.org or call IPC Member Support at +1 847-597-2862.