

## IPC-A-610 Overview

The IPC-A-610 Endorsement is included of the following IPC Certification Programs: Certified IPC Specialist (CIS), Certified IPC Trainer (CIT/MIT), Certified Standards Expert (CSE/SCSE). Specific program information is outlined in the [Policies and Procedures](#).

## Topics Covered in the IPC-A-610 Endorsement Program

- Establishing and maintaining integrity of the certification program
- Purpose and application of IPC-A-610
- Hardware installation
- Soldering criteria, including lead free connections
- Soldered requirements for connecting to terminals
- Soldered connection requirements for plated-through holes
- Surface mounting criteria for chip components, leadless and leaded chip carriers
- Swaged hardware and heatsink requirements of mechanical assemblies
- Component mounting criteria for DIPS, socket pins and card edge connectors
- Jumper wire assembly requirements
- Solder fillet dimensional criteria for all major SMT component groups
- Soldering, such as tombstoning, dewetting, voiding and others
- Criteria for component damage, laminate conditions, cleaning and coating
- Steps to effectively using the lesson plan and materials, tips on inspection and a review of important Certified IPC Trainer skills

## Who Should Earn an IPC-A-610 Endorsement

Anyone responsible for the quality and reliability of electronic assemblies should consider becoming an IPC-A-610 Certified IPC Trainer. Trainers and quality supervisors versed in electronic assembly are excellent candidates for A-610 training, as are engineering and manufacturing supervisors with assembly responsibilities.

"An excellent course of study on an excellent document... My students were nervous about testing, but we have had high pass rates and a lot of personal satisfaction gained from participating in the training. Without question, the greatest strength of the program is its relevance: it is used by our operators every day. The program has given the entire facility a much higher level of common knowledge about terminology and important concepts." ~ Bernie Schaeffer, Kimball Electronics Group