

IPC-A-610E Certified IPC Specialist (CIS) Course Overview & Schedule

| Hours | REQUIRED | Hours | Optional Certification | Hours | Optional Certification |
|----------------------------|--|----------------------------|--|----------------------------|------------------------------|
| 2.5 Hrs Lecture | Module 1 Introduction/IPC Professional Policies and Procedures | 1.5 Hrs Lecture | Module 3 Hardware Installation | 1.0 Hrs Lecture | Module 4 Soldering |
| 1 Hr Testing | Module 2 Foreword, Applicable Documents, & Handling | 0.5 Hr Testing | | 0.5 Hr Testing | |

| Hours | Optional Certification | Hours | Optional Certification | Hours | Optional Certification |
|--------------------------|--|--------------------------|--|----------------------------|--|
| 2 Hrs Lecture | Module 5 Terminal Connections (Requires Module 4 prior to taking this module) | 3 Hrs Lecture | Module 6 Through-Hole Technology (Including TH Jumper Wires) (Requires Modules 4 & 8 prior to taking this module) | 3.0 Hrs Lecture | Module 7 Surface Mount Assemblies (Including SMT Jumper Wires) (Requires Modules 4 & 8 prior to taking this module) |
| 1 Hr Testing | | 1 Hr Testing | | 1.0 Hr Testing | |

| Hours | Optional Certification |
|----------------------------|--|
| 2.0 Hrs Lecture | Module 8 Component Damage and Printed Circuit Boards and Assemblies |
| 0.5 Hr Testing | |

| Hours | Optional Certification |
|------------------------|--|
| 0.5 Hrs Lecture | Module 9 Solderless Wire Wrap |
| 0.5 Hr Testing | |

Training and Testing times are approximate and will vary depending on knowledge and experience of students. Except where noted optional modules may be trained in any order and at any time within the two year certification period established by Mandatory Modules 1 & 2.

IPC-A-610E Certified IPC Trainer (CIT) Course Overview & Schedule

| Hour | Day 1 | Day 2 | Day 3 | Day 4 |
|------|--|--|---|---|
| 1 | S-1 Introduction/Establishing and Maintaining Certification Program Integrity (2 Hrs.) | S-5 Terminal Connections (3 Hrs.) | S-7 Continued | S-11 High Voltage (0.5 Hr.) |
| | | | | S-12 Instructor Skills (0.5 Hr.) |
| 2 | S-2 Foreword, Applicable Documents, Handling (2 Hrs.) | S-6 Printed Circuit Boards (2 Hrs.) | S-8 Surface Mount Assemblies (3.5 hrs.) | S-13 Administrative Responsibilities of a CIT (1.5 Hr.) |
| 3 | | | | S-14 Testing |
| 4 | Lunch Break (Instructor will adjust as appropriate) | | | Course Review |
| 5 | S-3 Hardware (1.5 Hr.) | S-6 Continued | S-8 Continued | Open Book Test followed by Closed Book Test |
| 6 | | | | S-7 Through-Hole Technology (3 Hrs.) |
| 7 | S-4 Soldering (2 Hrs.) | (continued next morning or into optional Hour 8) | S-10 Discrete Wiring (1 Hr.) | Graduation and distribution of CIS Training Material (approximately 4 Hrs.) |
| 8 | [Instructor Optional] | [Instructor Optional] | [Instructor Optional] | [Instructor Optional] |

IPC-A-610E Certified IPC Trainer (CIT) Recertification Course Overview & Schedule

| Hour | Day 1 | Day 2 |
|------|--|---|
| 1 | S-1 Introduction, Establishing and Maintaining Certification Program Integrity (1.5 hours) | S-7 Through-Hole Technology (2 hours) |
| 2 | S-2 Foreword, Applicable Documents, Handling (0.5 hour) | |
| 3 | S-3 Hardware (1.5 hours) | S-8 Surface Mount Components (1.5 hours) |
| 4 | S-4 Soldering (1.5 hours) | S-9 Component Damage (0.5 hour) |
| 5 | | |
| 6 | S-5 Terminals (1 hour) | S-10 Testing Open Book Test followed by Closed Book Test and Reviews |
| 7 | S-6 PCB and Assembly Damage (1 hour) | Graduation and distribution of CIS Training Material |
| 8 | [Instructor Optional] | (approximately 4 Hrs.) |

**IPC-A-610E Training and Certification Program
Certified IPC Trainer (CIT) Course Syllabus**

| Session | Title | Duration |
|----------------|---|-----------------|
| 1 | Introduction/Establishing and Maintaining Certification Program Integrity | 2.0 hours |
| 2 | Foreword, Applicable Documents, Handling | 2.0 hours |
| 3 | Hardware | 1.5 hour |
| 4 | Soldering | 2 hours |
| 5 | Terminal Connections | 3 hours |
| 6 | Printed Circuit Boards and Assemblies | 2 hours |
| 7 | Through-Hole Technology | 3 hours |
| 8 | Surface Mount Assemblies | 3.5 hours |
| 9 | Component Damage | 1.5 hour |
| 10 | Discrete Wiring | 1 hour |
| 11 | High Voltage | 0.5 hours |
| 12 | Instructor Skills | 0.5 hours |
| 13 | Administrative Responsibilities of a CIT | 1.5 hour |
| 14 | Testing (Open and Closed Book Exams & Review) | 4 hours |
| | Total: | 28 hours |

**IPC-A-610E Recertification Program
Certified IPC Trainer (CIT) Course Syllabus**

| Session | Title | Duration |
|----------------|---|-----------------|
| 1 | Introduction/Establishing and Maintaining Certification Program Integrity | 1.5 hours |
| 2 | Foreword, Applicable Documents, Handling | 0.5 hours |
| 3 | Hardware | 1.5 hour |
| 4 | Soldering/High Voltage | 1.5 hours |
| 5 | Terminal Connections | 1.0 hours |
| 6 | Printed Circuit Boards and Assemblies | 1.0 hours |
| 7 | Through-Hole Technology | 2.0 hours |
| 8 | Surface Mount Assemblies | 1.5 hours |
| 9 | Component Damage | 0.5 hour |
| 10 | Testing (Open and Closed Book Exams & Review) | 3.0 hours |
| | Total: | 14 hours |

**IPC-A-610E Training and Certification Program
Certified IPC Specialist (CIS) Course Syllabus**

| Module | Title | Duration |
|---------------|---|---|
| 1 | Introduction/IPC Professional Policies and Procedures | 1 hour lecture |
| 2 | Foreword, Applicable Documents, & Handling | 1.5 hour lecture 1 hour open & closed book exams |
| 3 | Hardware Installation | 1.5 hours lecture 0.5 hour open book exam |
| 4 | Soldering | 1.0 hours lecture 0.5 hour open book exam |
| 5 | Terminal Connections (Requires Module 4) | 2 hours lecture 1 hour open book exam |
| 6 | Through-Hole Technology (Including Jumper Wires) (Requires Modules 4 & 8) | 3 hours lecture 1 hour open book exam |
| 7 | Surface Mount Assemblies (Including Jumper Wires) (Requires Modules 4 & 8) | 3.0 hours lecture 1.0 hours open book exam |
| 8 | Component Damage and Printed Circuit Boards and Assemblies | 2.0 hours lecture 0.5 hour open book exam |
| 9 | Solderless Wire Wrap | 0.5 hours lecture 0.5 hour open book exam |
| | Total: | 21.5 hours |