



K B Soldering Technology

Certified IPC Trainer & Consultant

IPC/WHMA–A-620 Cable and Wire Harness CIS (Certified IPC Specialist) Training & Certification Programme.

Note: Theory Only

Pre-requisite:

Good knowledge of production processes, and experience of manufacture of cable loom and harness assembly are essential.

IPC/WHMA-A-620 has enjoyed international acceptance since its first release in 2002, and has quickly become the most important process, materials and inspection standard for the cable and wire harness industry.

Developed with support of the Wire Harness Manufacturer's Association, the document and training programmes has earned an international reputation as the source for end-product acceptance. Now updated to lead free for terminal soldering criteria, IPC/WHMA-A-620 has been embraced by original equipment manufacturers and electronics manufacturing services companies worldwide.

Course objective:

The objective of the IPC/WHMA–A-620 Application Specialist training course is to give each candidate the knowledge of the IPC/WHMA–A-620 standard, so that they may apply the Standard within their company. The aim of this training course is to aid understanding of procedures relating to IPC Standard for faults, rectification, methods of soldering and quality of finished product on Cable and Wire Harness Assemblies, which includes the following topics:

Preparation, Soldered Termination, Crimp Termination, Insulation Displacement Connection, Ultrasonic Welding, Splices, Connectors, Moulding and Potting, Cable Assemblies, Marking and Labels, Coaxial and Twin axial Cable Assemblies, Wire Bundle Securing, Shielding, Cable and Wire Harness Protective Coverings, Installation, Solderless Wrap.

Certification

This programme is designed to provide certification for CIS (Certified IPC Specialist)

A 4 day sequence of lectures, DVD's and examinations will present the technical material in IPC/WHMA–A-620.

Testing will consist of multiple choice examinations. An average of 70% for each module or above is required for certification.

Everyone who successfully completes the IPC/WHMA–A-620 Application Specialist Training and examination will receive the IPC/WHMA–A-620 Application Specialist Certificate.

This certificate is valid for 2 years from the completion dates of Modules 1 & 2 regardless of the date any further modules were taken.

Retesting

Any individual who fails to achieve 70% will result in retraining on failed modules. The individual shall on request be provided the opportunity to attempt a retest of the modules failed, not sooner than 24hrs or more than 90days after the initial test. An additional fee will be charged for any retests.

Support materials:

Everyone who successfully completes the Application Specialist Training and examination will be supplied with one-detailed IPC/WHMA–A-620 hard copy.

Scope of knowledge to be gained:

Knowledge of IPC Standards and quality of the finished product.

After successful completion of Mandatory Module 1 and at least one other module, optional Modules 2-8 may be taught in any order at any time during the two year certification period.

Module 1 (Mandatory)

IPC Professional Policies and Procedures

Foreword

Cable/Wire Preparation

Measuring Cable Assemblies and Wires

Testing Cable Assemblies

2. (Optional)

Crimp Terminations

Insulation Displacement Connections (IDC)

3. (Optional)

Soldered Terminations

4. (Optional)

Connectorization

Moulding/Potting

5. (Optional)

Splices

6. (Optional)

Marking and Labelling

Wire Bundle Securing

Shielding

Cable/Wire Harness Protective Coverings

7. (Optional)

Coaxial and Twin axial Cable Assemblies

8. (Optional)

Solderless Wire Wrap

Course Duration: 4 Days

Instructor: Keren E Brunton CIT

What I Supply: Hard Copies of the IPC/WHMA–A-620, stationary and certificates

Facilities Required: Meeting room with:

- Projector & screen or LCD, both with laptop connections, if not available I can supply my own equipment.
- Flipchart