



Specialist Development

IPC 7711/7721 CIS) Rework of Electronic Assemblies and Repair and Modification of Printed Boards and Assemblies

HRDF # :: 10000140193

CERTIFIED IPC SPECIALIST (CIS)

IPC 7711/21, Rework, Modification, and Repair of Electronic Assemblies, is a widely used standard that offers a wealth of industry-approved techniques on through-hole and surface-mount (SMT) rework as well as land, conductor, and laminate repair. It covers procedural requirements, tools, materials, and methods for removing and replacing conformal coatings, surface-mount, and through-hole components. The standard also includes procedures for repairing and modifying boards and assemblies.

IPC-7721 Certified IPC Specialist (CIS) course students receive IPC certification for the modules relating to the IPC-7721. This course utilizes lecture and practical application to teach the board repair and modification criteria outlined in the IPC-7721 document. This class consists of the 4 rework modules of IPC-7721, including overview, printed wiring repair, laminate repair and conformal coatings.

COURSE OVERVIEW

The IPC 7721 Certified IPC Specialist (CIS) course leads to an IPC certification that is valid for two years. The training course uses lecture and practical application to teach the repair criteria of the IPC 7721 *Repair and Modification of Printed Boards and Electronic Assemblies* documents. The training course consists of 4 modules which cover areas specific to the IPC 7721.

OBJECTIVES:

The student will understand the technical guidelines of the IPC-7711/7721 by developing and demonstrating the skills necessary to perform rework at the advanced level.

- Demonstrate knowledge of the IPC-7711/7721 by successfully completing open and closed book exam
- Demonstrate recommended wire splicing techniques
- Remove and replace Plated Through Hole components
- Remove and replace Chip and MELF Surface Mount components
- Remove and replace SOIC Gull Wing and SOT Surface Mount components
- Remove and replace J-lead Surface Mount components

These activities will be completed using a variety of methods including vacuum extraction, component specific tip, tweezer tips, and a hot air removal system.

WHAT THE "LEARNER" RECEIVES:

- IPC-7711/7721 Manual
- Rework Circuit Board Kit

Students will receive an IPC-7711/7721 "Application Specialist (CIS)" certificate with an overall score of 70% or better, on classroom written exams and demonstrate acceptable Class 3 rework on practical exam.

Prerequisite : Soldering skills (including fine pitch soldering)
Date / Class Length : **28th July – 2nd August, 2024** (5 Days)
Time / Venue : 8.30 a.m. to 5.00 p.m. / **Techment Consultancy Training Room**
Price : RM 10,380 +8% = RM 11,210.40 Pax
Certification Length : 24 months

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Jointly organized by Black Fox and Techment Consultancy Sdn Bhd

701 Delaware Ave. Unit B Longmont, CO 80501 303.684.0135 1.888.837.9959 fax 303.485.5504 & 17-2-4, Bayan Point, Medan Kampung Relau, 11900, Bayan Lepas, Penang, 604-644 6061 or www.techment.com.my or www.blackfox.com



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COURSE SCHEDULE;

DAY 1 (9am- 5pm)

- **Module 1 : Policies and Procedures & General Knowledge of IPC-7711/21 (Required prerequisite for all modules)**
 - General Requirements of IPC 7711 & IPC 7721
 - Review of Soldering Technology
 - Common procedures - 20 Question Certification Exam
- **Module 2 : Wire splicing (Optional)**
 - Instructor demonstration and skills development on common procedures
 - Workmanship Assessment

DAY 2 (9am- 5pm)

- **Module 3 :Conformal Coating (Optional)**
 - Conformal coating ID removal and replacement
 - Workmanship Assessment
- **Module 4 : Through Hole Components (Optional)**
 - Instructor demonstration and skills development on through hole procedures
 - Workmanship Assessment

DAY 3(9am- 5pm)

- **Module 5: Chip & MELF Components (Optional)**
 - Removal and replacement Instructor demonstration and skills development chip components
 - Workmanship Assessment
- **Module 6 : Gull Wing Components - SOTC, SOIC, D-PAK, QFP (Optional)**
 - SOIC, SOT and Gull Wing procedures
 - Instructor demonstration and skills development SOIC, SOT and gull wings
 - Workmanship Assessment

DAY 4(9am- 5pm)

- **Module 7 : J-Lead and QFP procedures (Optional)**
 - Instructor demonstration and skills development J-lead and gull wings
 - Workmanship Assessment
- **Module 8 : BGA (Optional)**
 - Removal/Replacement Equipment selection
 - PCB circuit repair-repair of physical board damage
 - Instructor demonstration and skills development PCB repair
 - Workmanship Assessment

DAY 5(9am- 5pm)

- **Module 9: Laminate Repair (Optional)**
 - Instructor demonstration and skills development PCB repair
 - Workmanship Assessment
- **Module 10 : Circuit Repair (Optional)**
 - Instructor demonstration and skills development PCB repair
 - Workmanship Assessment

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Revision 3

“Performance Based Solutions”



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REGISTRATION FORM: IPC 7711/21 (CIS)

Date :

1. Name: _____ Position: _____

2. Name: _____ Position: _____

3. Name: _____ Position: _____

4. Name: _____ Position: _____

5. Name: _____ Position: _____

Contact Person : _____
 Tel : _____
 Email : _____
 Position : _____
 Company : _____
 Address : _____

Cheque: Payment by cheque should be crossed and made payable to **Techment Consultancy Sdn Bhd** being payment for _____participant(s).

For enquiries, please call Ms Maslina:

Tel: 04-6446061

Email: maslina@techment.com.my / mkt@techment.com.my

Booking and Cancellation Policy:

1. Course numbers are limited to a maximum of **10 people** only.
2. Places are allocated in order of receipt of registration form along with the full course fee. A place cannot be confirmed unless fees are paid or prior arrangements have been made.
3. Upon confirmation of program, all payment should be wired to:

Techment Consultancy Sdn Bhd

17-2-4, Bayan Point, Medan Kampung Relau, 11900, Bayan Lepas, Penang.

Hong Leong Bank

Current account no: 054-00-04559-8

Swift Code: HLBBMYKL

4. **Techment Consultancy Sdn Bhd** reserves the right to cancel/postpone courses in the event of unforeseen circumstances. Every effort will be given to ensure nominees for courses are placed on the next available course.



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Course Leader's Profile

Loh Wee Kong

Passport Number: K1460365P

Mr. Loh Wee Kong from Singaporean is a Principal Process Engineer before joining Blackfox Training Institute. He has over 26 years experience in the PCBA industry. He has been a IPC MIT/CIT for over 14 years.

Noticeable company that he has worked before includes Jabil Circuit doing Aerospace and Defence work and with DSO National Laboratories for over 9 years doing development work and conducting internal IPC training.

He has extensive hands on experience in PCBA's processes that includes Prototyping and Mass production. He also program, operate and maintained SMT machines, Wavesoldering machines, Conformal coating machines and rework stations. He has attended Jabil Circuit advance reflow training and is well versed in Temperature profiling for Convection and Vaporphase reflow. He finetuned the SMT process and developed the Conformal coating process in DSO National Laboratories. His recent development includes Parylene coating and Parylene rework process.

Mr. Loh Wee Kong will be able to conduct CIT, CSE and CIS training for IPC J-STD-001, IPC-J-STD-001 Space, IPC-7711/21 and IPC-A-610.

