



*Japanese Standards
Workmanship Courses
Now in the UAE*



Micro Soldering Technique Course

In association with

Hakko Soldering School, Japan



Hakko Soldering School at Dubai Airport Free Zone

01

The First Official Soldering School in the Middle East & Africa Region

02

The First Hakko Distributor Worldwide outside Japan, being selected to set up the Hakko Soldering School Concept.

03

Globally Recognized - Certificates carry Unique Serial Numbers and the Signature of the President of Hakko Corporation.

04

Neuro Technology is the Exclusive Distributor for Hakko Corporation for the Middle East and Majority of the African Countries from 1999.

From ZERO to HERO

Fundamentals of Soldering to Micro Soldering Techniques



Module 1

Fundamentals
of
Soldering

Module 2

Materials
for
Soldering

Module 3

Manual
Soldering

Module 4

Lead-free
Soldering

Module 5

Proper
Soldering
Procedures

Module 1: Fundamentals of Soldering

1.1

History
of
Soldering

1.2

Principle
of
Soldering

1.3

What's
Good
Soldering?

Module 2: Materials for Soldering

2.1

Solder

2.2

Flux

2.3

Base Metal

Module 3: Manual Soldering

3.1

Soldering
Iron
Structure

3.2

Selecting
Soldering
Iron Tips

3.3

Required
Properties of
Soldering
Iron

3.4

Soldering Iron Tip
Temp &
Soldering
Temperature

Module 4: Cautions when Soldering with Lead-free

4.1

Features of Lead-free Solder

4.2

Problems with Soldering Iron Tips

4.3

Resolving Problems that occur during Soldering

Module 5: Proper Soldering Procedures

5.1

How to
Heat Joint Area?

5.2

How to
Supply Solder?

5.3

How to
Pull Solder Away?

5.4

How to
Pull Soldering Iron
Away?

5.5

Through-Hole Lab
(Hands-on Training)

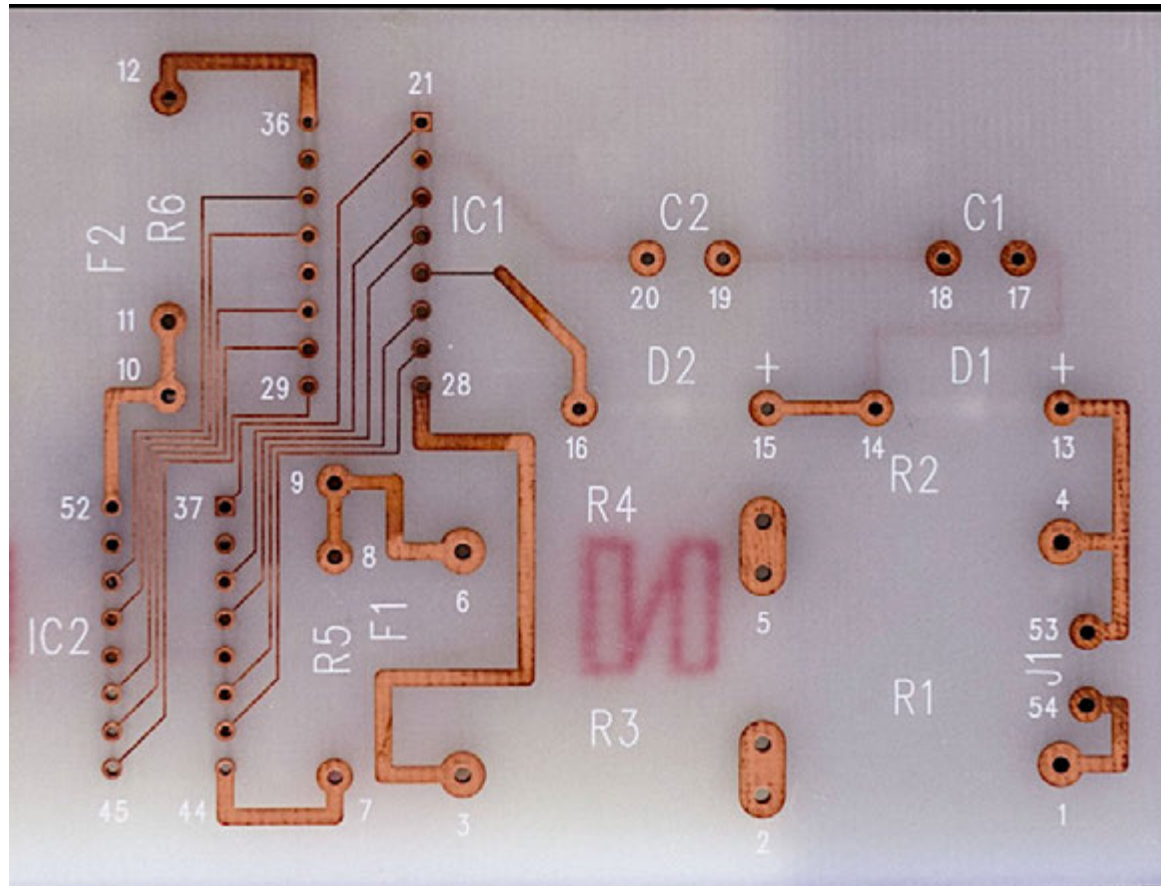
5.6

SMT Lab
(Hands-on Training)

Proper Use of
Stereo Microscope

ESD Threats

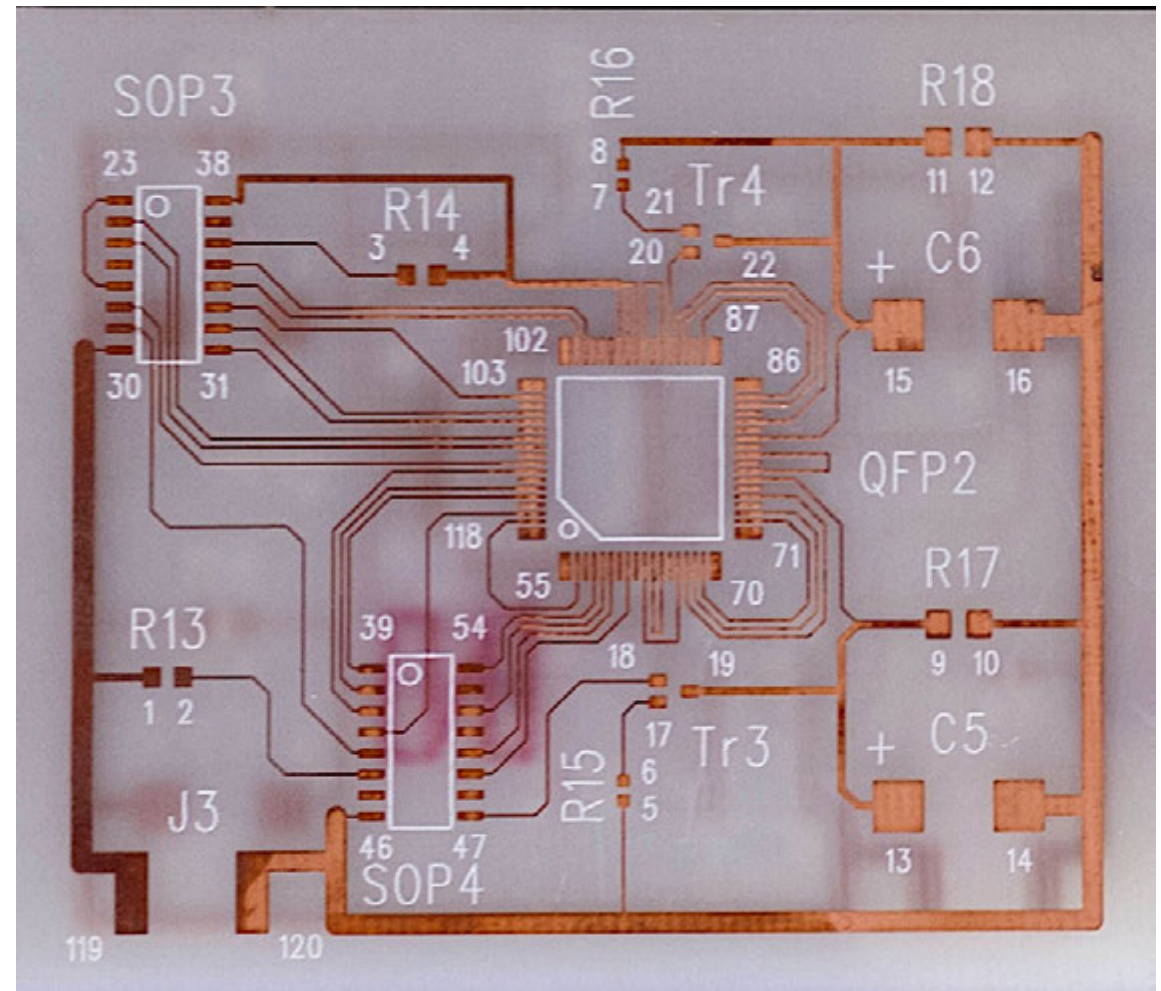
The Silent Killer



HAKKO Approved PCB – Through Hole Training



HAKKO Approved PCB – SMT Training



Become a Globally Recognized, Certified Professional

Unique Serial Numbers to Ensure Traceability

Certificates are issued by HAKKO Corporation, signed by the President

Course based on Content issued by General Incorporated associates
– The Japan Welding Engineering Society

Training Designed According to Quality Standard IEC81191/JISC81191

Established in 1952, HAKKO is the most Reliable Brand in Soldering Equip



Process in Stages >>>>>>

**Stage 1: Qualifying Exam
- Level 4 (Japanese Standards) Certification**





Stage 2: Facility Inspection

- Inspection of the Proposed Soldering Training School by the President of Hakko Corporation





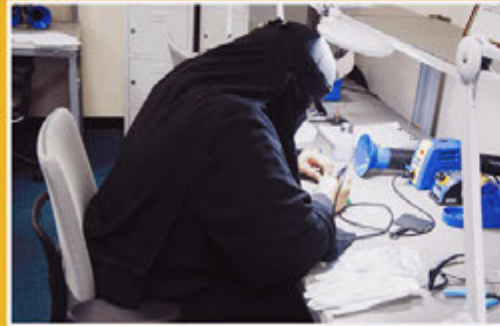
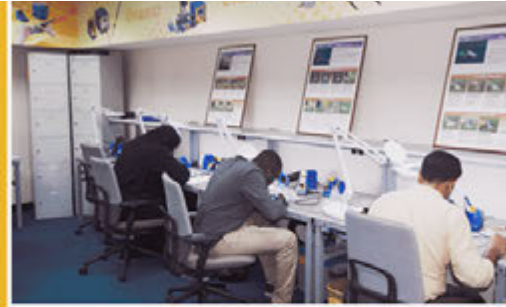
Stage 3: Signing Ceremony

Signing Ceremony on Approval,
after successfully completing
Level 4 Certification &
the Facility Inspection



Stage 4: Inaguration

HAKKO Soldering School was jointly inagurated by Dr. Eesa Bastaki, Eng. Maryam Al Thani & Ms Yoshimura



IPC J-STD-001& IPC -7711/7721 Certification Training Programs (Workmanship) are also conducted at this Lab

Why is Soldering Training so **NECESSARY**?

Soldering can Make or Break a PCB Assembly

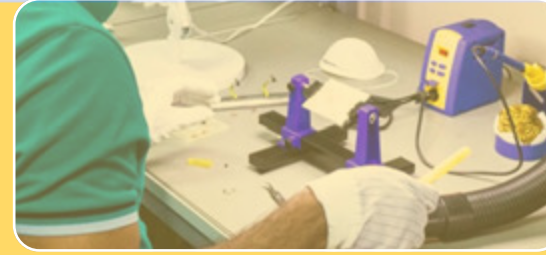
Universities/ Technical institutions worldwide do not teach Proper Soldering Techniques/ Best Practices as per the Prevailing Global Standards



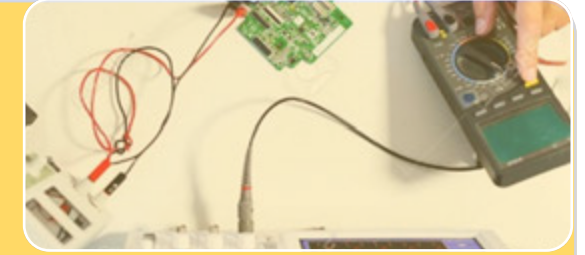
Manufacturing



Repair esp. Mission Critical Industries



R & D / Developmental Engineering



Universities / Technical Institutions

Reduce Product Returns.

Preserve Repute of the Organization.

Stop losing future Contracts.

Increase the Reliability and Efficiency of your Organization.

Reduce Wasting Time and Money on Inspection, Rework etc. due to Defective Soldering.

Reduce Repair Returns.

Save Human Lives, E.g. Medical, Avionics, Oil & Gas, Defense & Aerospace...

Reduce the loss of Components and PCBs.

Increase the Reliability and Efficiency of your Organization.

Reduce Wasting Time and Money on Inspection, Rework etc. due to Defective Soldering.

Proper Knowledge of Soldering and Mounting techniques are Paramount in Developmental Engineering.

Help Faster Troubleshooting and Validating Hardware Components in Multi-layered PCBs.

Help in Achieving Reliable Interconnects.

Assist in reaching Higher Quality Level products.

Most Necessary for Students Working in Advanced Labs, E.g. Robotics, Nanosat, AI, IoT etc.

Help Saving Hundreds of Superb Innovations being lost every year at Universities / Technical Institutions Worldwide.

Help inspiring Next Generation Innovators, Technocrats & Engineers.

Encourage more Students to Choose Engineering through Successful Projects.

ADDITIONAL SOLDERING TRAINING PROGRAMS



IPC J-STD-001, Requirements for Soldered Electrical and Electronic Assemblies, has emerged as the pre-eminent authority for electronics assembly manufacturing worldwide.



IPC-A-610 is the most widely used inspection standard in the electronics industry.



IPC-7711/7721 - Rework, Modification and Repair of Electronic Assemblies. Offers a wealth of industry-approved techniques.



IPC/WHMA-A-620, Requirements and Acceptance for Cable and Wire Harness Assemblies.



IPC-A-600, Acceptability of Printed Boards has set the standard for PCB workmanship quality.

MORE TRAINING PROGRAMS



HAKKO Thermal Wire Stripping Training Program



Tailormade Soldering Training Programs offered at Three Levels: Basic, Intermediate & Advanced



Selective Soldering & Desoldering Training - Theory + Hands-on Training on the prestigious Zevac (Swiss) DRS24



ESD Training for Operators



ESD Training for Co-ordinators/Auditors



ESD Training for Owners, Presidents & GMs (OPGM)

High-End Soldering Training Programs

Selective Soldering and Desoldering Training programs on ZEVAC DRS 24 (UAE) & ONYX series (Switzerland)



Having a Customer Base of 100+ Zevac Machines in the MEA Region, Neuro Technology Middle East Fze has acquired a Wealth of Knowledge in Selective Soldering and Desoldering technology related to various Industry Sectors - Telecommunications, Defense, Avionics, Forensic, etc.

Lead Trainer: Satish V P

Founder, OneSchool OneLab (a Global initiative)

Founder, Neuro Technology Middle East FZE

Regional Coordinator: Middle East & Africa ESD Forum
(Officially supported by ESD Association)

Alumni, Harvard Business School



Certified Level 4 (Japanese Standards)
Trainer on Micro Soldering techniques.



Rank 3 Certified (Japanese Standards) on
Thermal Wire Stripper Techniques.



Member, ESD Association
TR53 Certified ESD Technician



Certified ESD Trainer (CET)
- Certification Examination jointly
conducted by IPC & ESD Association .



Certified IPC Trainer for J-STD-001



Certified IPC Trainer for IPC-A-610



Certified IPC Trainer for IPC-7711/7721



Certified IPC Trainer for IPC/WHMA-A-620



Certified IPC Trainer for IPC-A-600



JOIN TODAY

Right from **Terminals** to **Through-Hole** to **SMD** to **BGA components**
– Neuro Technology offers the Entire Spectrum of Rework & Repair Training

Say GOOD BYE to Faulty Connections...

for more details

learning@neurotechnology.ae

 **NEURO TECHNOLOGY** MIDDLE EAST FZE
www.neurotechnology.biz