

Solder Process Training Courses



www.circuittechnology.com/training

340 Raleigh Street
 Holly Springs, NC 27540
 919-552-3434 Phone
 919-552-2772 Fax

CTI Training Course offerings

CTI Process Training

Wave Soldering, 2 days, up to 6 students	\$ 4,500.00
Reflow Soldering, 2 days, up to 6 students	\$ 4,500.00
Printing, 2 days, up to 6 students	\$ 4,500.00
Combination (wave, reflow, printing) 5 days	\$ 12,500.00
SMT Boot Camp, 2 days, up to 10 students.....	\$ 4,500.00
Lead Free, 2 days, up to 10 students	\$ 4,500.00

Other IPC and CTI Training offerings

IPC Certifications

IPC-610 Certified IPC Specialist	\$ 750.00
IPC-610 Certified IPC Trainer	\$1995.00
IPC Jstd-001 Certified IPC Specialist	\$1050.00
IPC JSTD-001 Certified IPC Trainer	\$2495.00
IPC 7711/7721 Certified IPC Specialist	\$1450.00
IPC 7711/7721 Certified IPC Trainer	\$2695.00

All IPC CIS classes pricing includes the IPC Standard.

CTI Certifications

3 day SMT with Lead Free	\$ 695.00
Board Level Repair	\$ 995.00
Advance BGA/CSP/SMT	\$1495.00

See back for more details on each of these certifications.



Circuit Technology, Inc. processes courses are designed to bring a quick return on investment directly associated with the training program, recognize the unique site dynamics that affect the process and incorporate them into an effective, site specific program, and provide a continuous resource for support after the training.

Solder Process Training Courses

CTI Process Training

These courses are designed to enhance the quality of your final product by optimizing your processes through an interactive hands on training process for your engineers and operators. Each training begins with the instructor gathering offline information about your facility and processes to begin the customization process. When onsite, the trainer begins with a comprehensive audit of your equipment and processes. We then adapt our curriculum to your specific requirements. A targeted classroom session based around the facts gathered both onsite and from the pre site audit then begins. We also integrate actual machine time to re-enforce the classroom discussions and exercises. Actual real time production problem solving ties all the exercises together. The last exercise is to implement the process knowledge and improvements on your production line.

Wave Soldering

This course provides hands on and theoretical wave solder process training. Topics include:

- Theory of operation
- Basics of soldering
- Machine parts and their function
- Machine maintenance and preventive maintenance
- The 5 keys to process perfection
- Profiling
- Verification
- Troubleshooting

Target audience: wave solder process engineers and operators.

Prerequisites: basic knowledge of wave solder machines, tools, meters and schematics.

Reflow Soldering

This course provides hands on and theoretical reflow solder process training. Topics include:

- Theory of operation
- Basics of soldering
- SMT and TH (intrusive) reflow
- Machine parts and their function
- Machine maintenance and preventive maintenance
- The 5 keys to process perfection
- Profiling
- Verification
- Troubleshooting

Target audience: SMT solder process engineers and operators.

Prerequisites: basic knowledge reflow ovens, tools, meters and schematics.

SMT Boot Camp

This 2 day class immerses the student into the SMT assembly process. Students will be introduced to Printing, Placement, Reflow, Inspection and Testing of PCB's. This class must be done at the customers facility to customize to their specific equipment and process

Target Audience: Technicians and operators.

Prerequisites: Basic knowledge of PCB assembly process.

SMT Printing

This course provides hands on and theoretical printing process training. Topics include:

- Theory of operation
- Basics of soldering
- Solder paste and adhesive printing
- Stencil design
- Machine parts and their function
- Machine maintenance and preventive maintenance
- The 6 keys to process perfection
- Verification
- Troubleshooting

Target audience: SMT solder process engineers and operators.

Prerequisites: basic knowledge printers, tools, meters and schematics.

Combination Printing, Reflow and Wave

This course combines all three curriculum into a full week of valuable process training.

Lead Free Process Control

This course guides the students through the myriad of decisions that must be made when converting to a lead free process. Topics include:

- ROHS regulation
- Alloy selection
- Flux selection
- Equipment requirements
- Profile changes
- Hand soldering and rework
- Documentation
- Dual process factory (tin-lead and lead free)

Target audience: Facility management and process engineers .

Prerequisites: basic knowledge PCB assembly process.

Certified IPC Trainer and Specialist Classes

Circuit Technology also offers IPC and CTI certification classes in the following disciplines:

- IPC-610 CIS and CIT
- IPC-7711 CIS and CIT
- IPC-7721 CIS and CIT
- IPC-J-001 CIS and CIT
- IPC-620 CIS
- CTI-SMT three day SMT rework
- CTI-CBT Combo Tech

These classes offered in both the specialist and train the trainer formats. Circuit Technology is a certified IPC master training site with training centers located in Raleigh, NC and Clearwater, FL as well as on site at customer facilities. For more detailed information on the IPC and CTI classes, please contact CTI.

Additional Customized & on-site classes available!

