

Lead-Free SMT Assembly and Rework

Course Summary

This course is designed to assist a company implement lead-free SMT assembly operations reliably and cost effectively. The course covers the main issues with lead-free soldering in SMT and its rework operation.

The course is designed for easy implementation of lead-free reflow by coupling technical and practical information on how to prevent process issues usually associated with lead-free soldering. Successful case studies are also discussed showing solutions to issues normally encountered with lead-free SMT assembly.

The course details the "8 Steps to Lead-free SMT " in the implementation of a lead-free reflow process. If you are seeking to be in a position to implement lead-free soldering or you are in the process of drafting an implementation plan, this course will be of benefit. If you are or have implemented a lead-free process, this course will help greatly in developing solid understanding of the process variables. Monitoring these variables will increase production yields and product reliability with your lead-free SMT operation.

Attendee Profile

This course is designed for SMT process engineers who are or will be implementing lead-free in reflow, and subsequent rework operations. It will also benefit line supervisors, group leaders, and line operators wishing to understand these processes for immediate implementation of effective process solutions.

Course Duration: 8 hours, Technical Presentation.
4 hours on-line, additional on site process audit course also available.

Course materials: Powerpoint presentations, complete workbook, and numerous technical hand-outs during the training course. Visual aids used extensively.

Certification: Certificates satisfying ISO training requirements are issued to participants who complete the course in its entirety.

Course Content:

- Lead-free Legislative and Global Update
- Lead-free alloy selection
- Paste flux chemistry selection
- SMT solderability and lead-free
- SMT component and board finishes
- Material compatibility and reliability
- Lead-free reflow soldering process
- Lead-free SMT process optimization
- Reworking lead-free and lead-free hand soldering
- Trouble-shooting and defects prevention in reflow soldering
- SMT and rework inspection criteria
- 8 Steps to a Lead-free SMT Process



Course Location - Kester University Training Center

This course is offered at our Des Plaines Training Center. The facility is equipped with a full SMT assembly process as well as a complete suite of laboratory testing equipment including X-ray vision apparatus to enable examination of joints for voiding.

Hands-on courses, combined with solid classroom based technical presentations are widely recognized as an excellent method to learn and retain important information. This course can be offered either with or without a hands-on tuition element.

On-site Training

The course can be offered at your plant location for maximum accessibility by your staff. Additional hands-on training can be scheduled to accompany this course's technical presentations. A process audit with your staff can be performed to assist you with lead-free SMT implementation.

Training courses can be customized to suit your specific process needs. This is an effective way to get the right training for your personnel on your existing production equipment.

Course Costs

Lead-Free SMT Assembly & Rework Course (at Kester Training Center)

This course is a full day classroom education at the Kester Training Center in Des Plaines, Illinois. Please call for group discount.

Course number KU-007 • \$395 includes training materials, certification, and lunch.

Lead-Free SMT Assembly & Rework Course (at Kester Training Center)

This additional 4 hour hands on application course covers materials learned in KU-007 class. KU-007 is strongly recommended before taking this course. Held at the Kester Training Center in Des Plaines, Illinois. Please call for group discount.

Course number KU-008 • \$200 includes training materials,, certification, and lunch.

Lead-Free SMT Assembly & Rework Course (on-site)

This course is a full day classroom education at your company's location. Please call for group discount.

Course number KU-009 • \$1595 for a maximum of 12 people, \$100 for each additional; plus travel expenses. Includes training materials and certification.

Lead-Free SMT Assembly & Rework Course (on-site)

This course includes a full day of classroom education plus 4 hours of hands on application tutoring. Held at your company's location.

Course number KU-010 • \$2295 for a maximum of 12 people, \$100 for each additional; plus travel expenses. Includes training materials and certification.

Lead-Free SMT Assembly & Rework Course (on-site and customized)

This is a Lead-Free SMT Assembly & Rework course customized for your specific needs at your company's location. These courses include all training materials, technical hand-outs, and certification.

Course number KU-011 • \$2295 without hands-on training

Course number KU-012 • \$2995 with hands-on training

To reserve your training course today call Gary Nicholls at Kester University 800-253-7837 or talk to your local Kester representative.

Keep your company on the leading edge and receive expert training from the leader with over 100 years of materials solutions experience.

