

Wave Soldering Process Control

Course Summary

This course has been specially designed to maximize your company's wave soldering manufacturing line and thus reduce or eliminate costly rework operations. The course covers the main issues concerned with reviewing the wave soldering process from initial materials selection through to monitoring the line output with SPC methodology.

The course offers solid technical information coupled with practical no-nonsense advice on how to address problematical issues usually associated with the wave soldering process. Successful case studies are discussed that show solutions to issues normally encountered in a wave soldering operation.

The course details a step by step approach intended not only to give you a better understanding of the critical elements that impact line yields but the measures you can take to increase its profitability. If you are already in or seeking to be in a position to implement favorable wave soldering production line modifications, this course will be of significant benefit. This course will help greatly in developing a solid understanding of the wave soldering process variables which in turn leads to improved production yields and product reliability.

Attendee Profile

This course is designed for process and manufacturing line engineers who are constantly challenged to optimize product yields and reduce rework operations in a wave soldering production environment. It will also benefit line supervisors, group leaders and line operators wishing to understand these processes and who can then facilitate immediate and 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:

- Flux selection criteria and standards
- Titration versus density controls
- Solder defects and how to avoid them
- Preheating the flux and board assembly
- Solderability of metals and process impact
- Wave contact and conveyor speed implications
- Verification of wave settings using LevCheks
- Application controls
- Thermal Profiling requirements and pressure interactions
- Bottom-side SMD Assembly
- Reworking and hand soldering
- Line maintenance and SPC
- Cleaning and conformal coating



NORTHROP GRUMMAN
Component Technologies

Course Location

Kester University Training Center

This Wave Soldering course is offered at our Des Plaines Training Center. The facility is equipped with wave soldering, application control and test equipment as well as a supporting array of laboratory analytical apparatus.

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.

Kester University 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

Wave Soldering Process Control Course without additional hands-on course at the Kester Training Center in Des Plaines, Illinois. Please call for group discount.

Course number KU-025 · \$395 includes Training materials, certification and lunch.

Wave Soldering Process Control Course with 4 hours hands-on training course at the Kester Training Center in Des Plaines, Illinois. Please call for group discount.

Course number KU-026 · \$595 includes Training materials, certification and lunch.

On-site Wave Soldering Process Control Course, without hands-on training.

Course Number KU-027 · \$1595 for a maximum of 12 people, \$100 for each additional; plus travel expenses. Includes training materials, all handouts and certification.

On-site SMT Assembly - Optimizing the Process Course, with 4 hours additional hands-on training.

Course number KU-028 · \$2295 for a maximum of 12 people, \$100 for each additional plus travel expenses. Includes training materials, all handouts and certification.

On-site Wave Soldering Process Control Course customized for your specific needs.

Course number KU-029 · \$2295 without hands-on training

Course number KU-030 · \$2995 with hands-on training

These include all training materials, technical hand-outs and certification.

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



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