Introductory Selective Soldering Workshop
In-Depth 2-Day Classroom and Hands-On Training Session

Who Should Attend
- Process Engineers
- Manufacturing Engineers
- Production Technicians
- Quality Personnel

What You Will Learn
- How to improve your selective soldering effectiveness
- Procedures for reducing no-clean flux residues
- How to minimize selective soldering defects
- Advanced process troubleshooting techniques
- How to reduce post-solder rework and increase manufacturing yields

Overview. This 2-day workshop features both classroom and hands-on curriculum that significantly accelerates the learning curve for those new to selective soldering or for those attendees who wish to advance their in-depth knowledge. The classroom session focuses on the technical aspects of the selective soldering process and describes the soldering process variables serving as guidance to enhance the flexibility, reliability and quality provided by selective soldering equipment. Classroom topics include:
  - Fundamentals of through-hole soldering
  - Solderability issues and ionic contamination
  - Lead-free and tin-lead solder characteristics
  - Flux application, no-clean processing and mitigation of flux residues
  - Preheating, thermal performance and instrumentation techniques
  - Design guidelines and quality measurement
  - Process troubleshooting guidelines
  - Advanced process optimization techniques

Hands-on topics include:
  - Machine setup and solder nozzle selection
  - Programming techniques and calibration
  - Solder pot and solder nozzle maintenance
  - Recommended operating practices
  - Preventative maintenance

About the Instructor. The classroom portion of this workshop is taught by well-known process expert Bob Klenke, Principal Consultant with ITM Consulting. He has more than 18 years of direct hands-on experience with selective soldering technology and is a frequent instructor for selective and wave soldering workshops at IPC/APEX and SMTA International conferences. The hands-on portion of the workshop will be taught by the staff members of the Nordson SELECT application lab.

Introductory Selective Soldering Workshop

Details
• This workshop is designed for, but not limited to, those who are new to selective soldering or those who wish to enhance their working knowledge
• Workshop objectives are to provide attendees with a thorough understanding of the essentials of selective soldering to develop a robust soldering process
• Attendees are invited to bring their own circuit board assemblies for detailed application analysis
• Workshop is limited to six (6) attendees to allow better focus on individual specific needs and unique requests
• No more than four (4) attendees from the same company per workshop due to small class size
• Space is limited so please register early before all seats are taken

2020 Dates
• Workshops are scheduled on a requested basis
• Contact Nordson SELECT to register

Cost
• The cost for the 2-day introductory workshop is $800 per attendee
• Cost includes workshop supplies, on-site lunch and snacks daily, and first evening dinner
• Each attendee is responsible for their own transportation and lodging

Location
Nordson SELECT
22425 East Appleway Avenue
Liberty Lake, WA 99019

How to Register
• To register for this workshop, or if any questions, please contact:
  Nordson SELECT
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