

# News Release

## FOR IMMEDIATE RELEASE

### **ACE to conduct March 14-15 introductory selective soldering workshop**

March 1, 2017, Spokane Valley, Washington – ACE Production Technologies, a Nordson SELECT company, and a leading supplier of selective soldering systems, is pleased to announce that registration is now open and seats are available for its upcoming March 14-15, 2017 introductory selective soldering workshop.

This introductory workshop will be held March 14-15, 2017 at ACE's Spokane Valley, WA facility. This comprehensive 2-day workshop is designed to educate and enhance an attendee's working knowledge of the overall selective soldering process.

#### **Who Should Attend**

- Process Engineers
- Manufacturing Engineers
- Production Technicians
- Quality Personnel

#### **What You Will Learn**

- How to improve your selective soldering effectiveness
- Programming tips and tricks
- How to reduce selective soldering defects
- Advanced process troubleshooting techniques
- How to reduce post-solder rework and increase yields

The classroom session focuses on the technical aspects of the selective soldering process and describes the process variables to enhance the flexibility, reliability and quality provided by all types of selective soldering equipment. Your questions about using a selective solder process, and differences in process parameters when working with tin-lead and lead-free solder alloys will be covered in detail. Topics Include:

- Fundamentals of through-hole soldering
- Solderability issues
- Lead-free and tin-lead solder alloys
- Flux application and no-clean processing
- Preheating and thermal performance
- Design guidelines and quality measurement
- Process troubleshooting guidelines
- Advanced process optimization techniques

This workshop entitled “Mastering Selective Soldering Processing and Manufacturability” features a combination of classroom curriculum and hands-on training that is designed to educate and enhance an attendee’s working knowledge of the overall selective soldering process. The classroom portion of the workshop will be presented by well-known process expert Bob Klenke, Principal Consultant with ITM Consulting. He has more than 15 years of direct hands-on experience with selective soldering technology and is a frequent instructor for selective soldering, wave soldering and X-ray inspection workshops at APEX and SMTA International conferences.

The hands-on portion of the workshop will be taught by the expert staff members in the ACE application lab. During the hands-on portion attendees will assemble, program, selective solder and evaluate a specially designed test board for 100% plated through-hole fill using X-ray inspection.

Attendees are encouraged to attend a third day for additional hands-on training and are invited to bring their most challenging circuit board assemblies from their workplace for additional testing and detailed application analysis.

More than 225 individuals from over 107 different companies have attended previous ACE selective soldering workshops including a 2-day introductory workshop and a 2-day advanced workshop. These highly successful workshops feature open communications and a continuous information stream that has helped attendees advance their skills, techniques and methods involved with the selective soldering process.

This highly acclaimed workshop features a combination of classroom and hands-on curriculum that significantly compresses the learning curve for those new to the selective soldering process or those who wish to advance their in-depth knowledge. For more information about this selective soldering workshop, or to register for the workshop, contact Rae Ann Miller at [rmiller@ace-protech.com](mailto:rmiller@ace-protech.com) or call 509-924-4898, Ext. 102.

### **About ACE**

ACE Production Technologies, a Nordson SELECT company, operates as part of Nordson’s Advanced Technology Systems segment, and designs and manufactures selective soldering systems suitable for lead-free and tin-lead electronics assembly applications. ACE’s complete line of durable and reliable selective soldering systems all feature lead-free compatible solder pots and are ideal for low, medium or high volume production. ACE also provides solderability testing, selective soldering workshops and process development services. For more information, visit [www.ace-protech.com](http://www.ace-protech.com), call 509-924-4898 or email [sales@ace-protech.com](mailto:sales@ace-protech.com).

### **About Nordson**

Nordson Corporation (NASDAQ: NDSN) engineers, manufactures and markets differentiated products and systems used for the precision dispensing and processing of adhesives, coatings, polymers and plastics, sealants, biomaterials, and other materials for fluid management, test and inspection, UV curing and plasma surface treatment, all supported by application expertise and direct global sales and service. Nordson serves a wide variety of consumer, non-durable, durable and technology end markets including packaging, nonwovens, electronics, medical, appliances, energy, transportation, construction, and general product assembly and finishing. Founded in 1954 and headquartered in Westlake, Ohio, the company has operations and support offices in nearly 40 countries. Visit Nordson on the web at [www.nordson.com](http://www.nordson.com).

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