

Successful Production Process Begins with an Educated Employee!

Qualified personnel can contribute decisively to the optimum use of a soldering machine. Qualified employees optimize the process to reduce cycle times and increase the level of quality simultaneously. Quick intervention in the case of failures can reduce potential downtimes significantly, and preventive maintenance will increase machine availability while reducing overall costs.

Advantages of the SEHO Academy

The efficiency of the SEHO training courses is based on a simple principle: to provide a perfect balance of theory and practical application.

The main goal of the SEHO Academy is to advise customers professionally. Also, attendees are welcome to bring their 'problem assemblies' in order to discuss possible solutions with SEHO's process specialists during the seminar.

Our Goal:

To increase your production quality and decrease your manufacturing costs, thus enabling **a higher profitability in your production.**

Make an investment in continuous improvement and quality enhancement today - with the seminars of the SEHO Academy!

Participation Fee/Scope of Services:

The participation fee is 650,00 € per person and day plus VAT.

Price includes comprehensive seminar paper, personal certificate of participation and refreshment.

If both seminars of one domain are booked at the same time, the second seminar will be discounted with 10 %.

Minimum attendance: 5 persons per seminar.

Registration

We bindingly register the following persons:

seminar no.: _____

date: _____

Company _____

First Name _____

Name _____

Department _____

Address _____

P.Code/City/Country _____

Phone _____

E-mail _____

Additional Attendees:

First Name, Name _____

First Name, Name _____

First Name, Name _____

Do you have particular issues to be trained?

Which soldering system are you using?

Please send by mail to:
SEHO Systems GmbH
Academy
Frankenstr. 7 - 11
97892 Kreuzwertheim
Germany

or fax:
+49 93 42 / 8 89 - 303

or E-mail:
academy@seho.de

or register online:
www.seho.de



Seminars 2012

Seminars Wave Soldering

Seminar **Maintenance of Wave Systems**

The quality of solder joints in the wave soldering process in many cases depends on the condition of the machine. Therefore, an effective and regular maintenance of the soldering system provides a basis for remarkable quality improvements at simultaneously reduced production costs.

What you will learn

Attendees will learn an experienced handling of all parts of a wave soldering system. The theoretical introduction is followed by an extensive practical part (focus on wave system MWS 2300).

Who should attend

Maintenance staff and assembly staff for wave soldering processes.

Date March 12, 2012 (additional dates available on request)

seminar no. W020/12

Seminar **The Wave Soldering Process**

This one day seminar will impart comprehensive knowledge about the wave soldering process and its parameters, with a particular focus on lead-free aspects. One focal point is the appraisal of soldering defects as well as corrective actions in case of process related problems.

What you will learn

- flux application and fluxer variants
- role of preheating and preheat variants
- solder alloys
- task of the solder wave - wave formers
- lead-free wave soldering - typical difficulties
- soldering in nitrogen atmosphere
- typical parameters in wave soldering processes
- optimization of cycle times
- typical soldering defects and corrective measures

Who should attend

Assembly staff in THT production environments, process control, quality control.

Date March 13, 2012 (additional dates available on request)

seminar no. W010/12

Seminars Reflow Soldering

Seminar **The Reflow System in Practice**

Experienced handling of the machine, maintenance work at regular intervals and the operator being able to fix machine errors, increase the productivity and life time of the system. In the medium to long term this will lead to considerable cost savings.

What you will learn

- handling of the important components of the machine
- maintenance work and intervals
- machine reports 'error' - what now?

Who should attend

Maintenance staff and assembly staff for reflow soldering processes.

Date October 17, 2012 (additional dates available on request)

seminar no. R020/12

Seminar **The Reflow Soldering Process**

In electronic assembly production, the surface mount technology becomes more and more important. Although being considered as not too complicated, it is essential to know about the fundamental correlations and the important parameters in reflow soldering. This one day seminar will shed light on the process with a particular focus on lead-free aspects.

What you will learn

- typical parameters in reflow soldering
- essential physical background information
- optimizing temperature profiles
- consideration of the process participants, i.e. PCB, components, solder paste
- inert atmosphere
- cycle time and conveyor speed
- machine configuration to optimize the process

Who should attend

Assembly staff in SMT production environments, process control, quality control.

Date October 18, 2012 (additional dates available on request)

seminar no. R010/12

Seminars Selective Soldering

Seminar **The Efficient Selective System**

The main criterion in selective soldering processes is the precision of the machine. An effective and regular maintenance often provides a basis for considerable quality improvements. The efficiency of the system can additionally be increased if the operator knows how to master the teach process (online or offline).

What you will learn

Attendees will learn an experienced handling of all parts of a selective soldering system. The theoretical introduction is followed by an extensive practical part (focus on PowerSelective, SelectiveLine, Offline Teach Program).

Who should attend

Maintenance staff and assembly staff for selective soldering processes.

Date • March 14, 2012 • October 15, 2012

seminar no. S020/12

Seminar **The Selective Soldering Process**

Precision and flexibility are the main criteria in selective soldering. Due to the ongoing miniaturization in assembly production one faces a considerable reduction of the process window which results in an increasing demand for process optimization. This one day seminar will impart comprehensive knowledge about the selective soldering process and its parameters.

What you will learn

- selective soldering methods: miniwave - dip soldering
- typical difficulties in selective soldering processes, e.g. poor hole fill, solder bridging or solder balling
- lead-free soldering
- process related soldering errors
- machine configuration to optimize the process

Who should attend

Assembly staff for selective soldering processes, process control, quality control.

Date • March 15, 2012 • October 16, 2012

seminar no. S010/12