

SUCCESSFUL PRODUCTION BEGINS WITH AN EDUCATED EMPLOYEE

By investing in the professional development of its staff, every company can achieve added value and reduce the production costs sustainably.

Qualified personnel can contribute to the optimum use of a soldering machine. Additionally, qualified employees optimize processes to improve production throughput, reduce cycle times and increase the level of quality.

Typical failures and equipment downtime can be reduced remarkably, thus reducing overall cost.

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.

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 help you increase the quality level of your production process and decrease manufacturing cost, thus enabling you to realize a [higher level of profitability](#).

Participation Fee/Scope of Services:

The participation fee per person is 610.00 € for a one day seminar, and 305.00 € for a half day seminar. Please note that German fiscal law requires to add 19 % VAT.

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

If both one-day seminars of one domain are booked at the same time, the second seminar will be discounted with 10 %. If booking all four seminars in the wave soldering domain, the total price will be discounted with 10 %.

Minimum attendance: 5 persons per seminar.

Registration Form

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 2015

Gained in
Practice
for Use in
Practice



SEHO ACADEMY

Wave Soldering Seminars

One-Day 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.

Attendees will learn how to maintain all parts of a wave soldering system. The theoretical introduction is followed by an extensive practical part (focus on systems MWS 2300 and PowerWave N2).

Dates: • 16 June 2015 • 17 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. W020/15

Half-Day Seminar **Software and Programming**

This seminar will enable you to handle the key elements of the software professionally, thus improving the overall performance of the wave system. This includes editing of soldering programs, management data system, configuration etc. (focus on MWS 2300).

Dates: • 17 June 2015 • 18 November 2015

Duration: 1/2 day
8:30 a.m. - noon **Registration Fee:** 305.00 €
Seminar no. W040/15

Half-Day Seminar **Error Diagnostics**

This half day seminar will provide comprehensive knowledge for an experienced handling of possible machine errors. Attendees will learn a structured approach to successful and quick debugging (focus on systems MWS 2300 and PowerWave N2).

Dates: • 17 June 2015 • 18 November 2015

Duration: 1/2 day
1 p.m. - 5 p.m. **Registration Fee:** 305.00 €
Seminar no. W030/15

One-Day 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. In addition, typical wave soldering defects will be reviewed and possible corrective actions being discussed.

Dates: • 18 June 2015 • 19 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. W010/15

Reflow Soldering Seminars

One-Day 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 working in SMT productions.

Date: • 22 June 2015 • 23 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. R020/15

One-Day Seminar **The Reflow Soldering Process**

In the electronic assembly production, the surface mount technology becomes more and more important. Although being considered as no too complicated, it is essential to know about the fundamental correlation 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: • 23 June 2015 • 24 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. R010/15

Selective Soldering Seminars

One-Day 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, SelectLine, Offline Teach Program).

Who should attend

Maintenance staff and assembly staff for selective soldering processes.

Date: • 24 June 2015 • 25 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. S020/15

One-Day 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 and dip soldering
- typical difficulties in selective soldering processes, such as poor hole fill, solder bridging or solder balling
- lead-free soldering
- process related soldering errors
- options to optimize and control the process

Who should attend

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

Date: • 25 June 2015 • 26 November 2015

Duration: 1 day
8:30 a.m. - 5 p.m. **Registration Fee:** 610.00 €
Seminar no. S010/15