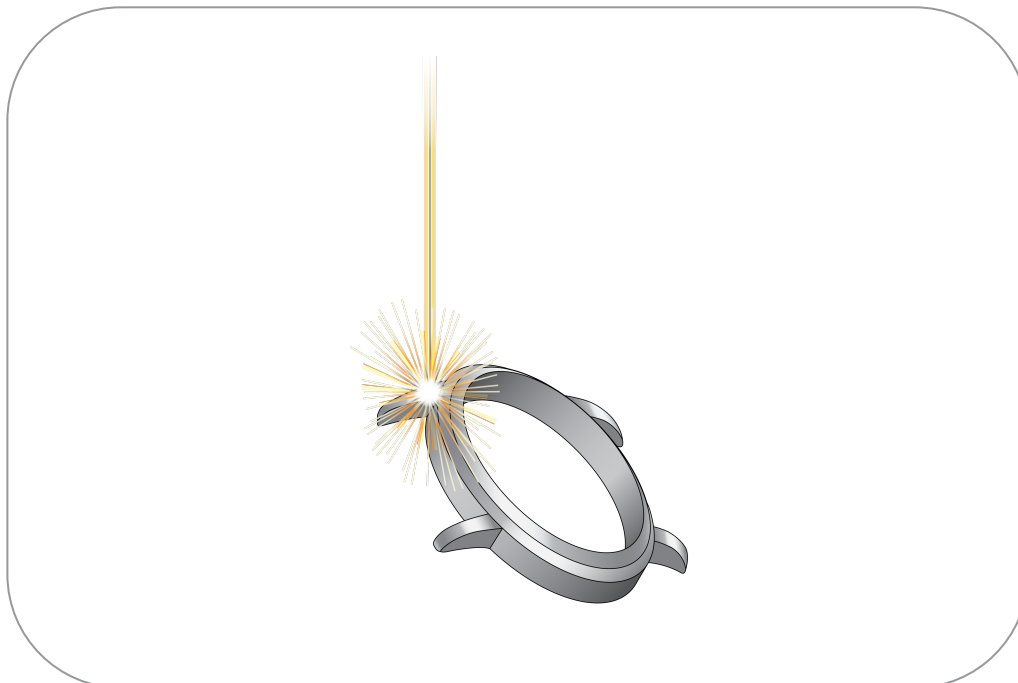


Polishing – Filling with Laser-Welding

5 days



SCAN ME

A highly accurate technology
for repairing and reconditioning parts
while preserving their original shape and
surface appearance.



Watchmakers of Switzerland Training and Educational Program
Centre Suisse de formation et de perfectionnement horloger



WOSTEP – WHO ARE WE?

Founded in 1966 and supported by the Swiss watch industry, the Fondation WOSTEP, located in the cradle of watchmaking in Neuchâtel, offers training programs covering several watchmaking professions. As a reference centre for watchmaking training and development worldwide, the Fondation WOSTEP transmits unique know-how through cutting-edge teaching. The range of training programs and consulting services offered by WOSTEP are considered quality standards. Employers around the world recognize WOSTEP certification as a proof of technical competence and demonstration of a solid training.

The neutral and independent Fondation WOSTEP is supported by 6 active members who together generate 90% of the turnover of the watch industry in Switzerland. Its ambition is to preserve and promote Swiss know-how abroad. Two pillars of the Foundation are the courses offered in Neuchâtel and the partnership with several schools abroad. The standardization of training programs and evaluation criteria implemented in cooperation with the industry ensures a true Swiss Made on a global scale.

With more than 50 years of experience, WOSTEP manages innovative projects with the close support of its members and donors and positions itself as a real training and skills center of the future.

CERTIFYING TRAINING

The Neuchâtel school offers certifying training in watchmaking and polishing.

The watchmaking programs are run through a phase of Watch Technician, then Customer Service Watchmaker after one year. Finally, Watchmaker is the additional year more specialized in manufacturing which allows to arrive at a panel of knowledge worthy of traditional haute horlogerie. The student develops in-depth and specific skills in tool maintenance, diagnosis with defect identification, maintenance, movement adjustment, complete service, polishing, precision adjustment, micromechanics and watch manufacturing.

The Customer Service Polishing Technician is a program that allows the reconditioning, disassembly and reassembly of watch cases and bracelet components made of various base metals according to their technical and aesthetic characteristics.

These certification programs make it possible to reach a high level in watchmaking and polishing careers with specific opportunities in international haute horlogerie.

Note: Certificates – titles recognized for their practical part by the Convention Patronale de l'Industrie Horlogère Suisse (Swiss Watch Industry Employers Federation) / based on governmental orders of the SEFRI (Secrétariat d'Etat à la Formation, à la Recherche et à l'Innovation (SERI - State Secretariat for-Education, Research and Innovation).

COURS À LA CARTE

To complete our offer, the school hosts multipurpose courses. Practical or theoretical à la carte courses can be developed and implemented on demand. Train the Trainer, Complete Service Standard Operation, Chronometry, Balance Hairspring Manufacturing, Chronograph, Turning, as well as modular and specific polishing courses, such as laser welding refilling, are given regularly.

More details can be found on our website.

COURSE CURRICULUM

Course description

The 5-day WOSTEP *Filling with Laser-Welding* course is a response to a growing request on the market for restoration of vintage watches. It is about applying metal onto various damaged metal parts by using laser welding, to fill gaps and replace missing material. This is a method for repairing and reconditioning parts while preserving their original shape and surface appearance. Participants receive theoretical instruction and perform practical exercises.

C54 – POLISHING - FILLING WITH LASER-WELDING



Duration: 5 days

Main topics

Application of different practical laser welding procedures on various watch case parts and bracelets, by using laser-welding machines. Additional – some polishing techniques, such as polishing and satin finishing are integrated.

This course includes the following topics:

- Control panel and operational settings of a Laser-Welding Machine
- Different waveforms
- Welding parameters
- Welding
- Welding defects
- Polishing
- Satin finishing

Career opportunities

With the *Filling with Laser-Welding* course, participants will bring state-of-the-art skills in refurbishment of watches and jewellery to customer services and independent repair centres. It allows to work in vintage departments, restoration or common full services.

Requirements and target audience

The *Filling with Laser-Welding* course is addressed to those who work in watchmaking service centres, to owners or employees of independent jewellery workshops, polishing or watchmaking workshops. For participation it is required to have a minimum level of knowledge in polishing techniques, i.e., graduates of our *Customer Polishing Technician* program or *Polishing - Different Polishing Techniques* course or similar.

TIMETABLE AND PARTICIPANTS

- Monday to Friday: 08:30 – 12:00 / 13:30 – 17:00.
- Maximum 5 participants per session.

LOCATION

Fondation WOSTEP, Rue des Saars 99, 2000 Neuchâtel, Switzerland

REQUIRED MATERIAL

All the equipment, accessories, components and consumables will be provided by WOSTEP, except for loupes (recommended magnifying size for the polishing course: x 2,5).

MEALS

Meals are not provided and are at the participants cost.

ACCOMMODATION

Participants will receive a list of hotels in Neuchâtel with the confirmation of the course in order to make their own reservation.

COURSE FEE

- CHF 2'200.- per person (accommodation and meals not included)
- -10% discount for donators
- -75% discount for Partnership teachers
- -25% discount for active members

ATTESTATION

An attestation will be delivered upon completion of the course.

FILLING WITH LASER WELDING COURSE REGISTRATION

Session selection

Please indicate your choice of session date/period*:

**Select from published program/course dates online or enclosed flyer.*

Personal details – please fill in CAPITAL letters

Ms. Mr.

Last name (s):

First name (s):

Employer:.....

Present occupation and responsibilities:

Mailing address

Name / Company name (if applicable):

Street address, n°:

Post office box:

Zip Code - City:

Country:

Home phone:

Work phone:

Mobile phone:

Home e-mail:

Work e-mail:

Invoice address (if different from the above mentioned)

Name / Company name (if applicable):

Contact person:

Street address, n°:

Post office box:

Zip Code – City:

Country:

WHERE/HOW DID YOU HEAR ABOUT WOSTEP?

WOSTEP student(s) Employer Advertisement Internet

Other:

Date: Signature:

To register for the course, kindly complete this form and send to wostep@wostep.ch or register directly through our website under www.wostep.ch/training/programs.

EDUCATION, EXPERIENCE AND SELF-ASSESSMENT– FILLING WITH LASER-WELDING

| Name of school / Company | Period of time | Hours of training |
|--------------------------|----------------|-------------------|
| | | |
| Self-taught | | |

Professional experience (after training):

| Name of employer | Full-time | Part-time | Period of time |
|------------------|--------------------------|--------------------------|----------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | |
| | <input type="checkbox"/> | <input type="checkbox"/> | |
| | <input type="checkbox"/> | <input type="checkbox"/> | |
| | <input type="checkbox"/> | <input type="checkbox"/> | |

Polishing and laser soldering experience:

Number of years:

Watch brand / product / external component you are most experienced with (case middle, case back, bezel, bracelet):

.....
.....

Evaluate your level of understanding/acquisition for the criteria below, using the following scale:

- Level 1:** None
- Level 2:** Beginner
- Level 3:** Confident

| Competence | Level of understanding / acquisition | | |
|-----------------------------------|--------------------------------------|---|---|
| | 1 | 2 | 3 |
| Basic soldering – Laser soldering | | | |
| Sandblasting-Microbeadblasting | | | |
| Lapping | | | |
| Grinding | | | |
| Felt polishing | | | |
| Satin finishing | | | |
| Polishing – Final finishing | | | |
| Cleaning | | | |
| Jewellery | | | |
| Other? | | | |

Please reconfirm your choice of session date/period*:

**Select from published program/course dates online or enclosed flyer.*

Last name: First name:

