

## Turning Course

October 11 to December 17, 2010

November 2009

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### Instructor

Marion Müller

### Dates and duration

October 11 to December 17, 2010

10 weeks – 420 hours

### Location

WOSTEP, Saars 99, 2000 Neuchâtel

### Aim

Gain knowledge and experience to be able to use a lathe to reproduce broken or missing parts

### Requirements

Candidates must be practising watchmakers

### Price 2010

CHF 5,430.- including accommodation with half board in a student's home

CHF 2,900.- for people having already an accommodation nearby

+ approximately CHF 350.- for the individual tool kit (compulsory)

### Tools

- The graver
  - preparation and sharpening
- The lathe
  - different types and accessories
- The Jacot-tool and the burnish
- Measuring instruments

### Technology

- Knowledge of metals and turning speeds
- Drawing
  - how to read a drawing
  - making a simple drawing
  - taking measurements and introducing them on a drawing

### Practice

- Basic turning
  - on brass and steel rod
  - making tools incl. various operations such as drilling, knurling, thread-cutting and heat-treatment
- Fine turning
  - preparing pivot-gauges
  - turning the pivots of the gauges
  - turning a balance-staff body
  - turning the pivots of the balance-staff
- Burnishing
  - use of the Jacot-tool
  - burnishing the pivot-gauges
  - burnishing the balance-staff-pivots
- Exercises
  - making a new balance-staff to replace an old one
  - 1 x small and 1 x large
  - making a new stem to replace an old one
  - 1 x small and 1 x large

If time allows : re-pivoting broken pivot, milling exercises, turning on Schaublin lathe.

### Lathe

Care of the equipment

### Examination

At the end of the course, each student is submitted to a final examination

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### Estimation of your Professional experience

Name ..... Surname .....

Training	Name of school or training institution	Which period	Hours of training
Watchmaking school	.....	.....	.....
Apprenticeship	.....	.....	.....
Training in family business	.....	.....	.....
Self-taught	.....	.....	.....

### Professional experience (after training)

Employer's name	Full-time	Part-time	Period
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

Repair experience: number of years ..... : mechanical :.....% quartz:.....%

Name of the watch brand with which you have the most experience: .....

Experience in the following operations	Not at all	Beginner	Confident
Filing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread cutting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any other speciality ? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are you able to turn a balance staff ?  YES  NO  
Are you able to fit a balance staff ?  YES  NO

Date ..... Signature .....

