Workshop Registration
Metallography in Practice

Name, First Name

Organisation

Organisation Unit

Street

ZIP, Location

Phone

Fax

Email

By registering for the seminar, you consent to the processing of your personal data for the purpose of organising the seminar in accordance with the GDPR.

☐ I hereby agree to receive the newsletter from TAZ GmbH. Your personal data will not be passed on to third parties. You can unsubscribe from the newsletter at any time.

Date, Signature

Company stamp

Dates (please tick)

☐ 22. and 23.09.2026

You will receive suggestions for accommodation with your registration con rmation. Please reserve your room at the respective accommodation in good time, as there may be bottlenecks during trade fair periods in Augsburg.

Registration:
Fax   +49 (0)8205 - 518 40 99
Email   aankner@tazgmbh.de

TAZ GMBH

Registration and information
TAZ GmbH
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WORKSHOP

Metallography in Practice
Part 1 for Beginners
(2 Tage)

22. and 23.09.2026

www.tazgmbh.de

AIM OF THE WORKSHOP

The aim of this seminar is to impart theoretical and practical knowledge for the independent preparation of metallographic sections. In small groups, participants will independently separate, embed, grind, and polish samples from heat treatment processes.

For case-hardened samples, the case hardening depth will also be determined, and for nitrided samples, the nitriding case depth will be measured. However, the main focus is not on hardness testing of the specimens, but rather on imparting the practical skills necessary for producing metallographic sections.

REALISATION

For practical sample preparation, we have access to two hot-mount presses, two cutting machines, and two grinding and polishing machines. We will also cover the manual preparation of metallographic sections without the use of grinding and polishing machines.

Please note that the first morning of the event will be dedicated to a theoretical introduction to the most important fundamentals of metallographic section preparation.

On the afternoon of the first day and throughout the second day, all samples will be prepared in detail, live, and their microstructures will be briefly assessed.

YOUR SPEAKERS

Sebastian Mirthes, M.Eng.Materials engineering
Arnulf Roidl, Metallographer

WORKSHOP PROGRAM

DAY 1

8.30 - 9.00 am: Sebastian Mirthes und Arnulf Roidl
Introduction and welcoming of participants

9.00 - 12.00 am: Sebastian Mirthes
Introduction to metallographic sample preparation:

> Differences between micro- and macro-section
> Cutting (selection of cutting discs, structural changes due to cutting)
> Embedding (cold and warm embedding, advantages and disadvantages, marginal gap)
> Grinding and polishing (preparation techniques, grinding and polishing media)
> Hardness tests (Rockwell, Brinell, Vickers, metallographic cross-section test)
> Case hardening depth (CHD) and nitriding case hardening depth (NHT)
> Introduction to heat treatment processes
> Introduction to structural analysis

Break

1.00 - 6:00 pm: Sebastian Mirthes und Arnulf Roidl
Practical Metallography

DAY 2

8.00 - 12.00 am: Sebastian Mirthes und Arnulf Roidl
Practical Metallography

Break

1.00 - 6:00 pm: Sebastian Mirthes und Arnulf Roidl
Practical Metallography

You are welcome to bring your own samples for evaluation. Sufficient time will be available for the examination of the samples, as a maximum of 6 people will participate in this training.

RATE

1.025,- Euro (plus 19 % VAT)

SERVICES
The workshop price includes
> Complete training materials
> 2 lunch together
> Dinner on the first day of the event
> Documentation
> Consumables
> Work on the devices
> Certificate of participation according to ISO 9000ff

PARTICIPATION
In order to ensure an optimal and efficient training programme, the number of small number of participants. We therefore ask you to register registration.

REGISTRATION
To register, please return the registration form to us by fax or email.

REGISTRATION DEADLINE
2 weeks before the scheduled date

CANCELLATION
Please understand that in the event of cancellation after receipt of the written of the written registration we will have to charge you 15 % of the unless you have registered a substitute participant.