

# Laser Safety Officer for technical application

Dates: (please mark)

11.05.2021

10.11.2021

## FAX - Register (0511) 277 18 05

Please note that you can also register via internet:  
[www.lzh-laser-akademie.de](http://www.lzh-laser-akademie.de)

last name .....

name .....

company .....

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I hereby declare my acceptance to the registration conditions by the  
LZH Laser Akademie GmbH.

I agree to the electronic storage of my data for the purpose of registration.

date                      signature/stamp

### ! Please note

The registration takes place in recognition of the general terms and conditions of the LZH Laser Akademie GmbH. Upon registration, you consent to the storage of your data for the purpose of registration. Please read our privacy policy on [www.lzh-laser-akademie.de](http://www.lzh-laser-akademie.de). The participation fees are to be transferred immediately after receipt of the invoice without deductions to the specified account. Please take care that you are stating the invoice number. All prices are net prices, plus VAT. A withdrawal from the registration must be in writing. A cancellation at least 14 days prior to the event is free of charge. In case of cancellation after this deadline up to the 3rd working day before the event, 50% of the fee will be charged. In case of later cancellation or not attending the seminar or premature termination of participation, the full participation fee has to be paid. Decisive is the date of the postmark. The LZH Laser Akademie GmbH reserves the right to postpone or cancel a seminar for reasons it is not responsible for, e.g. illness of a lecturer, insufficient number of participants, etc. The notification of the registered participants will be sent to the address given at registration. If the seminar can't take place, already paid participation fees will be refunded. Further claims by participants, especially damages for nonperformance, are excluded. The LZH Laser Akademie GmbH reserves the right to change content and personnel of a seminar, if necessary.

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Seminar



## Laser Safety Officer for technical applications

Seminar according to Ordinance on Artificial  
Optical radiation (OStrV) and technical rules  
"Laser radiation" (TROS Laserstrahlung)

[www.lzh-laser-akademie.de](http://www.lzh-laser-akademie.de)

# Laser Safety Officer for technical applications



## Description

When operating laser devices of the classes 3R, 3B or 4, a qualified laser safety officer must be appointed. The expertise must be verified by successful participation in a course and has to be kept right up to date through further training.

This seminar provides a comprehensive knowledge of direct and indirect potential hazards during the operation of laser systems. Participants will be informed of the origin and the effect of the laser radiation, and learn effective safeguards. In order to be optimally prepared for the task as a Laser Safety Officer, the seminar goes into detail on the legal framework and regulations and laws.

Our training seminars are recognized by the professional associations and labor inspection officer and meet the requirements necessary to obtain expertise of a Laser Safety Officer, in accordance with Annex 3 of the Accident Prevention Regulation DGUV Vorschrift 11 (BGV B2) and TROS laser radiation.



## Target audience

Employees who will be responsible for laser safety, and Laser Safety Officer who want to refresh their knowledge.

Participants should meet the requirements of TROS Laserstrahlung, Teil Allgemeines, Chapter 5.1. (TROS laser radiation, general part, chapter 5.1.)



## Costs

Attendance fee 395,- € (plus value added tax)  
the attendance fee includes:

- handouts
- coffee, drinks and lunch
- Certificate of successful participation, otherwise certification of attendance



## Location and contact

LZH Laser Akademie GmbH  
Garbsener Landstraße 10  
30419 Hannover  
tel.: (0511) 277 1729  
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internet: www.lzh-laser-akademie.de



## Aims

Sie finden Antworten auf die Fragen:

- What are the hazards of a laser for technical applications?
- Which legal regulations must be observed?
- What protective measures against injury are there?
- What tasks and duties do I have as a laser safety officer?

**A registration is always necessary because of limited number of participants.**

You can register by:

- fax: you have to fax the page with the registration
- Internet: [www.lzh-laser-akademie.de](http://www.lzh-laser-akademie.de)

*After your registration has arrived, you will receive a written confirmation of registration, directions and the invoice.*

## Program

9.00 – 17.00 o'Clock

### Reception

#### Legal Basics

- > Laws, directives, ELIA Guidelines
- > Technical norms

#### Physical Parameters and properties of Laser Radiation

- > Generation and properties of light
- > Operational mode of lasers

#### Coffee break

#### Biological Effects of Laser Radiation

- > Interaction mechanisms between light and tissue
- > Exposure limit values/ Sample calculations

#### Laser Safety - indirect risks

- > Secondary hazard potentials
- > Operational mode of lasers

#### Lunch

#### Laser Safety - direct risks

- > Primary hazard potentials
- > Laser classification
- > Technical, organizational and personal protective measures

#### Coffee break

#### Practice: Laser-Safety

- > Exemplary performance of a Hazard analysis

#### The Laser Safety Officer

- > Authority, Responsibility, Liability

#### Multiple Choice test

#### Hand-over of certificate