

COURSE DESCRIPTION

This course provides a comprehensive coverage of the HARSHAW Personnel TLD program.

Lectures include both introductory and advanced topics. The introductory part covers the fundamentals of thermoluminescence, HARSHAW TLD readers and the operating software WinREMS.

The advanced part covers system calibration and performance verification.

Complementary time for individual questions and answers on Friday morning, October 15, 2010.

We are looking forward to welcoming you to a productive and enjoyable training!

No radiation protection measures have to be taken.

PRELIMINARY SCHEDULETuesday,  
October 12, 2010**Basics**

- 9:00 am** Basics of Thermoluminescence
- 10:30 am** Coffee Break
- 11:00 am** Basics of Thermoluminescence
- 12:00** Lunch
- 1:00 pm** Operational Quantities for Whole Body, Environmental and Extremity Monitoring
- 2:00 pm** TLD Workstation Components and Setup
- 3:30 pm** Coffee Break
- 4:00 pm** Basics of WinREMS

Wednesday,  
October 13, 2010**Hands-on in Small Groups**

- 8:30 am - 5:00 pm** Practical Training
- Linearity as well as Combined Energy and Angular Response Data are crucial to provide meaningful and reliable dosimetry to your employees and customers. You are provided with useful guidelines how to assess and interpret these data. Which conclusions should be drawn for your daily routine work?

**Group Dinner in the evening.**

Thursday,  
October 14, 2010**Data Analysis,  
Discussions, Q&A**

- 8:30 am** Detailed Discussion of Results
- 10:00 am** Coffee Break
- 10:30 am** Continuation of Discussion
- 12:00** Lunch
- 1:00 pm** Questions & Answers on Selected Topics such as:
- Quality Control Procedures Why and How?
  - Data Handling and Backup Procedures
  - Absolute System Calibration by using remote Irradiation Laboratories
- 4:00 pm** Wrap-Up

COURSE INSTRUCTION**Dr. Reiner Esser and Christoph Simson**

Thermo Fisher Scientific Messtechnik GmbH

TRAINING LOCATION

Thermo Fisher Scientific Messtechnik GmbH  
Frauenauracher Strasse 96  
D-91056 Erlangen, Germany

HOTEL INFORMATION

A block of rooms has been held at the hotel "Zur Einkehr", Erlangen at a rate of 62 Euro/night incl. breakfast. Please contact Ms. Andrea Watzer directly to make your reservations.

Reservations must be made before August 31, 2010.

COURSE FEE

990 € per person.

Also included:

- Daily lunch
- Group dinner on Wednesday night

**Please note:**

**Please remit the course fee due via bank transfer only after receipt of invoice! We reserve the right to cancel the course, if the requested minimum number of participants cannot be reached.**

REGISTRATION FORM

Please mail or fax the following information  
by August 31, 2010:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

Country: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Arrival Date and Time: \_\_\_\_\_

Departure Date and Time: \_\_\_\_\_

 Smoker     Nonsmoker     Vegetarian

 Specials \_\_\_\_\_

I will attend the Wednesday evening group dinner

 Yes     No

Please direct your registration to:

**Ms. Andrea Watzer**

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D-91056 Erlangen, Germany  
email: andrea.watzer@thermofisher.com  
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# The HARSHAW Personnel TLD Program



Erlangen, Germany  
October 12-14, 2010