



TRAINING SERVICE

Adapted to your needs

LANDAUER provides various training courses either on-site or at LANDAUER offices.

We offer:

- User training to make you completely independent in managing your dosimetry.
- Specific technical training to enhance your knowledge in dosimetry.

All LANDAUER courses are conducted by professional instructors with high expertise and experienced years in dosimetry.

T1 START UP TRAINING FOR AN INDIVIDUAL MONITORING LABORATORY INCLUDING BOTH EQUIPMENT SET-UP AND LABORATORY OPERATION - 3 DAYS (PFAUIC0000)

General introduction to individual monitoring

- International regulations and standards
- Goals and objectives in the area of radiation protection

Introduction to OSL technology

- Physical principle of recording and reading dose with Optically Stimulated Luminescence, Al₂O₃:C material properties
- Measurement chains
- InLight dosimeters

Metrology and quality assurance

- Main dosimetry values ($H_p(10)$, $H_p(0.07)$, $H^*(10)$...)
- Area monitoring, environmental monitoring and individual monitoring
- Raw dose, net dose, reported dose and background subtraction
- Sources of uncertainty

MicroStar, OSLR and annealer

- Configuration
- Instrumentation calibration
- Dosimeter reading InLight
- Data processing
- Annealing
- 1st level of maintenance

Individual dose monitoring laboratory management

- Management of the operation
- Customer account management





microStar for medical applications

T4 TECHNICAL AUDIT BEFORE ISO17025 ACCREDITATION - 2 DAYS (PSCOAT0000)

- Technical audit of the lab processes, 1 day on site
- Report 1 day paper reviewing

T5 BLIND TEST SERVICE - 1 DAY CONDUCTED FROM PARIS OFFICE (PSCOTA0000)

- Already irradiated dosimeters provided to your facility
- Short result report including certificate

T6 CONSULTANT AT APPROVAL OR AT ACCREDITATION PROCESS (PSCOHCD000)

Agreed number of days with the customer depending on how much more assistance the customer needs post the training of T1

T7 START UP TRAINING OF MICROSTAR AND MICROSTAR ii FOR MEDICAL APPLICATIONS - 1 DAY (PFAUMS0000)

Introduction into OSL theory

- Physical principle of recording and reading dose with Optically Stimulated Luminescence, Al₂O₃:C material properties
- Measurement chains
- Description of OSL dosimeters

Metrology and quality assurance

- Main dosimetry values (kerma, absorbed dose, $H_p(d)$,...)
- Calibration set: how to use it
- Standard Measurement checking
- Calibration acceptability (Quality controls and good practices)
- Measurement flowchart
- Source of uncertainty

microStar, microStar ii and pocket annealer reader using

- Configuration
- Linear and polynomial calibrations
- Calibrate microStar and microStar ii
- Standard measurement
- nanoDot dosimeter reading
- Data processing (import, export...)
- Annealing
- 1st level of maintenance

State of the art nanoDot application

- nanoDot performances reminders (angular, energy and dose rate dependence)
- nanoDot user feedback (France, USA, Spain...)



Individual monitoring laboratory



Technical audit