Laser Safety Officer in Research and Industrial Environment

3 DAYS (21H)

Ref. SLIR-03en

Training certified by the National Optical Safety Commitee of Photonics France

OBJECTIVES

- Give to safety professionals all the procedures to safely operate any laser system
- Concieve or improve a laser safety enclosure by mastering hazard analysis calculation
- Adapt collective and personal protective equipments
- Ensure his own as well as coworkers safety

PUBLIC

- Technicians and laser operators
- Engineers and safety officers
- Professors, researchers and PhD students

TOPICS

- Characteristics of laser emission
- Hazards associated with laser beam and non beam hazards
- Accidents- Medical examinations – Prevention- Protective equipment
- Standards and regulations
- Practical instructions for safety rules application

ÉVALUATION

- Évaluation de satisfaction
- Contrôle de connaissances
- Attestation de fin de formation

INSTRUCTORS

- Safety Laser Experts

PROGRAM

- **Laser emission: important background**
  - Basics on laser theory and characteristics of laser emission
  - Main lasers and their applications
- **Hazards associated to the implementation of a laser system, or non-beam hazards**
  - Chemical agents
  - Physical agents
  - Other agents
- **Optical Hazards: biological effects**
  - Skin and eyes effects
  - Medical surveillance
- **Laser accidents**
  - Some examples
  - Behavior in case of accident
- **Standards and regulations**
- **Exposure limits (with practical calculations)**
  - Accessible Emission Limits and laser classification
  - Maximum permissible Exposure (MPE)
  - Nominal hazard zone
- **Preventive measures and protection tools**
  - Control measures
  - Risk analysis
  - Collective and personal protective equipment
  - Warning signs and labels
- **Applied lab on a dedicated laser safety platform**

METHODS & EDUCATION TOOLS

- Theorical contribution
- Demonstrations
- Movie presentation

MORE INFO

- Venue : Bordeaux and Limoges University or in your Institute
- Dates : contact us
- Registration fee : contact us