

## Laser Safety Officer Training - Program Level 3

### OBJECTIVES

At the end of the training, the trainee will have the ability to:

- Know how to do a laser risk analysis
- Design or improve the layout of a secure laser room
- Adapt means of protection and prevention
- Ensure your safety and that of others

### PUBLIC

These are personnel working with laser equipment and having access to radiation levels above the exposure limit value, in other words, higher than Class 2 lasers. People who are responsible for their own safety and the safety of others.

Examples: HSE Manager, Safety Engineer, Laser Manufacturers or Laser Machines

Prerequisites: Mathematical calculation high school level

### RUNTIME

2 days of training, for a total of 14 hours.

### PEDAGOGICAL AND TECHNICAL MEANS

The following resources will be mobilized for training:

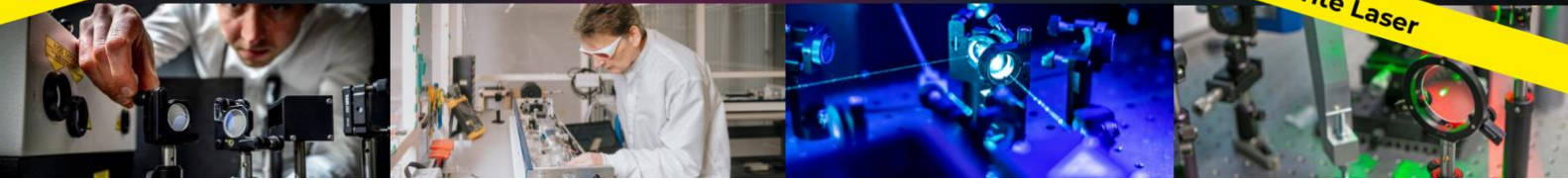
- Visio-training on Microsoft Teams with PowerPoint presentation and interactive online questionnaires

The training will be provided by Mr. Joévan ZIEBEL, laser safety expert trainer graduated as an optical engineer.

### MONITORING AND EVALUATION

**Mechanism for monitoring the execution of the evaluation of training results:**

- Attendance sheets via Edusign (digital signature via an email sent to the trainee)
- Quizz at the end of the internship
- Training Evaluation Questionnaire.
- Training certificate



## TRAINING CONTENT

### Day 1

Visio-training | 0h45

- Presentation and entrance test on Kahoot!

Visio-training | 0h45

1. Introduction: risks in our daily lives

Visio-training | 1h00

2. The characteristics of a laser

Visio-training | 0h45

3. Types of lasers and their applications

Visio-training | 1h00

4. Laser classes

Visio-training | 0h15

5. Follow-up test on Kahoot!

Visio-training | 0h45

6. Biological effects

Visio-training | 1h15

7. Collective and individual protection

Visio-training 0h30

- Follow-up test on Kahoot!

### Day 2

Visio-training | 1h00

8. Regulations and standards

Visio-training | 2h00

9. MPE (maximum permissible exposure) – Continuous and Pulsed Laser

Visio-training | 2h00

10. Nominal eye hazard distance

Visio-training | 1h00

11. Classifying a laser – accessible emission limit (AEL)

Visio-training | 1h00

- Validation with quiz and feedbacks