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