

# Laser Safety

## Course Objectives

This course is aimed at teaching students the dangers associated with using lasers. If the students understand the dangers, they will be better equipped to protect themselves from injury. The course is presented by Dr Aletta Karsten, who has more than 40 years' experience in laser use and more than 20 years' experience in Laser Safety Training.

## Course Content

The course will include the following topics:

- What is a laser?
- Differences between normal light and laser light (coherence, monochromatic, directional)
- Laser interaction with matter (Reflection or scattering, absorption and transmission)
- Laser applications
- Lasers and eye safety
- Laser and skin damage (general)
- Laser hazard classification
- Maximum Permissible Exposure (MPE) for different lasers
- Laser accidents and eye injuries
- Eye protection (how do I protect myself)
- Non-beam hazards (other hazards associated with lasers)
- Laser Safety in South Africa

## Course Date

6 March 2024

## Duration

0.5 day

## Cost

R1 000

## Who should attend?

Laser safety officers, everyone using lasers in his or her work environment as well as supervisors of laser workers.

## Course Information

NMISA's courses are developed and presented by experts in the field. They are divided into modules. Once the student is comfortable with course content, he/she can write an online examination designed to test knowledge and understanding. On successful completion of the examination, a certificate of achievement is issued.



**nmisa**  
training centre