40 years of expertise in laser safety and laser technologies, serving your most critical challenges.

Industrial Lasers for Beginners

Ref: AL.1

Laser cutting, laser welding and laser marking meet a large number of industrial needs very effectively in terms of quality, speed, flexibility and cost. Most major industrial sectors have been using this technology for many years, but new applications are emerging and are expected to find outlets in industry.

Practical information

DATES (INTER-COMPANY / IN-HOUSE / E-LEARNING)
On request

ORGANISATION
/

DURATION
2 days
Starts at 1.30 pm - ends at 12.30 pm

PRICES
1890€ excl. VAT

TECHNICAL/TEACHING LEAD:
Franck RIGOLET

DO YOU HAVE A DISABILITY?
Contact our disability officer at referent.handicap@irepa-laser.com

Key information

PREREQUISITES
/

ACCESSIBLE LASER CLASSES
/

CERTIFICATION
Certificate of completion issued.

TECHNICAL/TEACHING LEAD:
Franck RIGOLET

Training objectives

- Establish the fundamentals of laser technology.
- Know the methods and limits of laser use.
- Define the environment needed to get to grips with a laser tool quickly and effectively.
- Assess and successfully integrate the laser tool within the company.
- Know how traditional laser applications are evolving and current developments.

Target audience

Design offices, engineers, technical managers, production, methods, quality, research and development.

Programme

Over the 2 days

Industrial lasers
• Light and laser beam
• Laser beam properties
• New lasers and their specific features
• Applications (other than industrial)

Industrial applications
• Current applications and how they are evolving (cutting, welding...)
• Innovative applications (texturing, additive manufacturing...)
• Laser/material interaction
• Influence of parameters and limits
• Examples of achievements
• Machine demonstrations

Safety awareness
• Employer obligations
• Prevention and protection

Technological aspects
• Installation on an industrial site
• Associated ancillary systems
• Approach to maintenance

Economic approach
• Manufacturers
• Operating costs
• Industrial systems