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Basics of Laser System Engineering

Who should attend this course?

The course is aimed at technicians and engineers who need to manage laser systems and implement improvements. Some experience in working with lasers is useful, and attendees should have prior training in laser safety.

Why should you attend this course?

Laser systems only work well when they are set up properly. This course gives a detailed overview of the components of a laser system and explains how to measure beam properties and characterise the system. It includes a demonstration of beam alignment on an open Class 4 laser system and provides an opportunity to discuss your system setup with experts.

Programme

Classroom sessions

- Introduction to light and lasers
- Beam properties and calculation and measurement of beam parameters
- Components of a laser system
- Beam alignment and focusing
- Machining strategies
- Sources and suppliers

Practical sessions

Parallel laboratory sessions with a maximum of 3 trainees in each session.

- Beam alignment and profiling
- Laser processing demonstration
- Optics handling and cleaning

Booking Information

The next course will run on Tuesday 23rd June 2009. Places can be booked through BESTNET at 061 371753 or bestnet@icbe.ie for €200 per person. Course notes, refreshments and lunch are included in the course fee. Attendance is restricted to a total of 9 trainees in order to have a maximum of 3 in each practical session and ensure a good learning experience.

Extra courses can be scheduled if requested by 9 attendees. Company-specific courses can be developed for a development fee and a commitment to ongoing attendance.

Location

This course is held at the NCLA, which is located in the Physics Department at the National University of Ireland, Galway.

For more information contact ncla@nuigalway.ie..