Industrial laser safety responsibilities and requirements

An intensive half-day tutorial providing an introduction and update to industrial laser safety organised by the Association of Laser Users (AILU) for users, suppliers and integrators of lasers for materials processing

5 October 2011 Amada UK, Kidderminster

Programme

09:00 – 09:30 Registration and refreshments

09:30 – 09:45 Welcome to the meeting and Amada
Martin Sharp (Meeting Chair)
Ian White (Amada UK)

09:45 – 10:45 Open beam high power laser use
Responsibilities and delegation in the workplace and the role of laser radiation risk assessment *(Legal requirements, principal controls in Class 3B & 4 laser radiation safety, TR 60825-14)**
Mike Green Principal consultant at Pro Laser

Design considerations for laser controlled areas *(Control of access, screens, shutters and enclosures, TR 60825-14, EN 60825-4, EN 12254)**
Paul Tozer Managing director at Lasermet Ltd

Specifications and options for viewing windows and protective eyewear *(EN207, 208, EN 60825-4, EN 12254)**
Frank Billhardt Head of sales and marketing at Laser Vision GmbH, Germany

10:45 – 11:15 Refreshment break and EXHIBITION

11:15 – 12:15 Laser processing machine safety
Standards for compliance of laser products and processing machines *(EN 60825-1 and EN 11553)**
Mike Barrett Principal consultant at Pro Laser

Servicing of Class 1 laser cutting machines *(Responsibilities of the user and supplier)**
Stuart Turner Plant health and safety at Amada UK

Developments in requirements for safety-related controls *(EN ISO 13849)**
Dave Collier UK business development manager at Pilz

Dealing with fume hazards in laser materials processing *(COSHH regulations 2002)**
David Quinn Area sales manager, Purex International

12:15 – 12:45 Open Forum
A panel of presenters will tackle safety questions from delegates

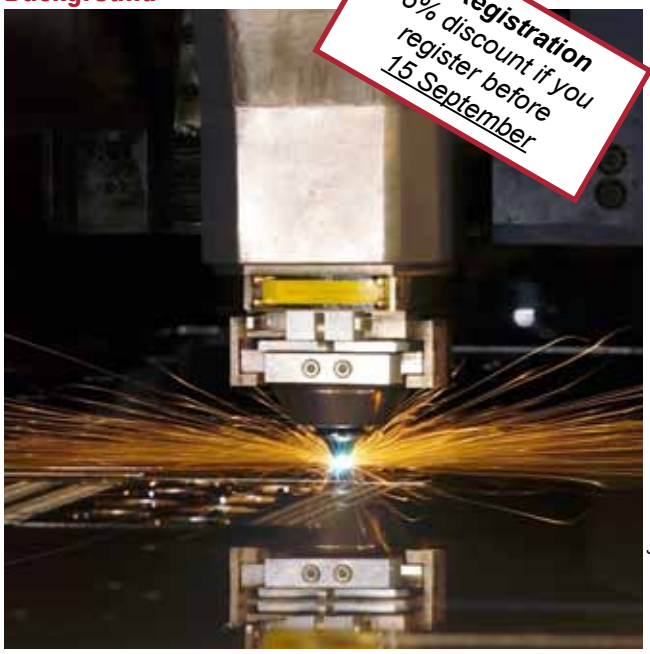
12:45 – 13:15 EXHIBITION

* *Italic text after presentation titles indicate key areas addressed and standards referred to.*

Amada are pleased to invite delegates to stay for lunch and to tour the Amada Technical Centre

Background

Early Registration
15% discount if you register before 15 September



Courtesy of Amada

Laser technology and applications continue to offer promise of more productive and precise manufacturing over a wide range of sectors. Supporting the safe manufacture, integration and use of laser sources and machines are safety standards and guidelines; indeed, laser technology has proved to be not only the most flexible but also one of the safest tools for materials processing.

First and foremost, this half day technical introduction and update tutorial highlights and explains the generality of what you need to know about industrial laser safety: whether as an employer or supervisor responsible for safety in the workplace, or as a manufacturer and/or supplier of laser related equipment. Its scope covers the key safety standards for suppliers of industrial lasers and Class 1 laser processing machines; through to the implementation of regulations for health and safety in the workplace where lasers are used, including requirements for open beam work during research and development and the servicing of embedded laser products, as well as commercial products to support safe laser use.

The growth of technology and applications has created new and/or increased risks and the legal consequences to businesses of laser injuries in the workplace are severe. As a result, there remains a need for those manufacturing laser sources and systems to be aware of current relevant standards and regulations, and for users to be aware of compliance standards of equipment they are purchasing as well as the sources of best practice in laser use.

Please see over for additional information plus travel and registration details

REGISTRATION FORM

Industrial Laser Safety 5 October 2011

If you are an AILU member you can register for the tutorial simply by contacting the AILU Office (details below) Otherwise, please complete and return this form.

*Name: .....

Position: .....

*Organisation: .....

*Address: .....

.....

*Post Code: .....

Tel: ..... Fax: .....

*E-mail: .....

*** mandatory field**

Registration rates

❏ I wish to register as a delegate. The applicable rate is:

❏ GBP 110.00 + VAT (= £132.00)
I am an existing member of AILU

❏ GBP 60.00 + VAT (= £72.00)
I am unemployed or retired

❏ GBP 40.00 + VAT (= £48:00)
I am a full time student

❏ GBP 135.00 + VAT (= £162:00)

❏ I am applying before 15 September. Please deduct 15%.

Notes

- If you would like another employee can attend in your place simply let us know; there is no extra charge.
- For group discounts (three or more) please contact the AILU office.

Exhibiting

A small table top exhibition of laser safety-related hardware and literature will be held during the mid-morning refreshment break and for 30 minutes at the conclusion of the presentations. Tables and banners can be located at the back of the lecture theatre and in the adjacent refreshment area, subject to space limitations.

❏ I wish to display laser safety-related advertising material and/or hardware ONLY. Please reserve me ❏ Space only ❏ A table
The applicable rate is:

❏ GBP 75.00 + VAT (= £90.00)
I am a Corporate member of AILU and have also registered as a delegate

❏ GBP 95:00 + VAT (= £114:00)
I have also registered as a delegate

❏ GBP 110:00 + VAT (= £132:00)
I am a Corporate member of AILU

❏ GBP 135.00 + VAT (= £162:00)

❏ I am applying before 15 September. Please deduct 15%.

Payment options

❏ Please invoice me

❏ I wish to pay in advance by:
1. Bank/Euro cheque in £ Sterling, payable to AILU
2. Visa/Mastercard (billing in GBP):
Name on Card
Number _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ Exp _ _/_ _
Please debit my account

Signed: ..... Date: .....

Cancellations will be accepted up to 1 week before the event; otherwise the full fee may be charged.

Please return completed form to the AILU office, details below

Who should attend?

The presentations will concentrate on the key standards and guidelines applying to the design and use of laser sources and laser-based machines. They will also address open beam laser use and requirements for workplace health and safety in research and production environments. Finally, though not intending to fully satisfy the needs of those requiring laser safety training, the presenters will highlight the relevant safety standards and the assessments that need to be carried out and documented in the workplace. As such, the intensive 1/2 day tutorial will be particularly valuable to:

- Manufacturers, integrators and suppliers of industrial laser sources and laser processing machines
- Laser machine service organisations
- Health and Safety managers in industrial organisations where high power lasers are used
- Laser users and machine operators

The open forum at the end of the tutorial will provide the opportunity for delegates to pose issues related to their specific conditions of laser use.

A certificate of attendance will be issued to delegates upon completion of the tutorial.

Travel

The meeting will take place at:

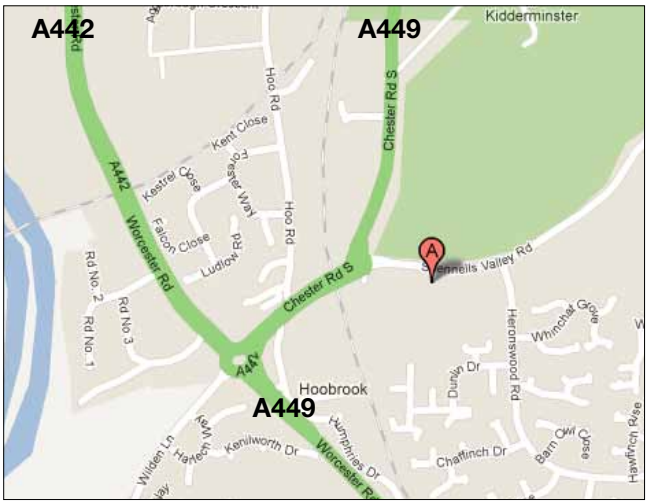
AMADA UK

Spennells Valley Road

Kidderminster, Worcestershire

DY10 1XS UK

It is south of the centre of Kidderminster being about 2km from the railway station and just off the A449.



This tutorial is organised by the AILU Market Development Special Interest Group. The MD SIG supports the Design for Laser Manufacture initiative and provides a point of focus for those supplying laser-related products and services. See: www.designforlasermanufacture.com

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