

# HSL: Machinery Series – Designing & Specifying Safety Related Control Systems – Buxton, 14 Sept 2017

## Book Course

HSL is to run a 1 day course on Machinery Series – Designing & Specifying Safety Related Control Systems.

**14 September 2017**

## **Introduction**

Control systems for machinery, whether electrical, pneumatic, hydraulic or combinations there-of, are often required to perform safety-related functions. There are regulatory requirements for these control systems and established approaches for dealing with their design, which are laid out in European Standards. This course will help delegates understand how to specify and design safety related control circuits which comply with the requirements of both the Supply of Machinery (Safety) Regulations 2008 (Machinery Directive 2006/42/EC) and the Provision and Use of Work Equipment Regulations. It explains how these, and other regulations and standards are applied to real-life situations, through the use of examples of how to and how not to do it. The course provides methods and templates developed at HSL to help engineers comply with the relevant requirements effectively and efficiently. The course concentrates mainly on the approach laid down in EN ISO 13849-1:2008, but also gives objective advice on the relevance of other standards such as EN ISO 13840-2: 2012, EN 62061:2015, and other Safety of Machinery standards, such as EN ISO 14119: 2013 on interlocking devices.

The course will also explain the changes in the recently updated standard EN ISO 13849-1: 2015.

## **Course includes**

### **Who should attend?**

Electrical, control and project engineers, whether they be original equipment manufacturers or users involved in specifying control systems on customized machinery / assemblies or significantly modifying control systems on existing machinery / assemblies.

### **Venue**

The course will be run at the HSL laboratory in the spa town of Buxton. Buxton is in the heart of the Peak District and has good links to mainline train stations and Manchester International Airport.

Details of hotels in the Buxton area can be found at [www.visitbuxton.co.uk](http://www.visitbuxton.co.uk)

## Cost

The cost of the course is £450 per person (includes course notes, lunch and refreshments).

[Book Course](#)

**Please note the invoice option is not available within 4 weeks of the course date, or for overseas customers. If you are selecting the invoice option for payment, it will be mandatory to input a purchase order/reference number as we are unable to process booking forms without this.**

For further dates and additional information email: [training@hsl.gsi.gov.uk](mailto:training@hsl.gsi.gov.uk) or contact the Training & Conferences Unit at HSL directly on +44 (0)1298 218806.

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## **HSL: Machinery Risk Assessment Essentials – Buxton, 12 Sept 2017**

[Book Course](#)

HSL is to run a 1 day course on Machinery Series – Machinery Risk Assessment Essentials.

**12 September 2017**

## **Introduction**

The ability to carry out a detailed machinery risk assessment has, for some time, been a key skill required under the Management of Health and Safety at Work Regs. Machinery risk assessment is also now explicitly required by the Supply of Machinery (Safety) Regulations 2008. However many people still struggle to know what is suitable and sufficient to satisfy these regulations.

This training course gives delegates practical hands-on experience of conducting a machinery risk assessment using structured techniques which demystify the process given in BS EN ISO 12100: 2010.

This course assumes a basic level of understanding of machinery safety such as that given in the machinery safety basics course that takes place on the

previous day. Anyone who also needs a thorough understanding of the Provision and Use of Work Equipment Regs should take this course in combination with the Machinery Safety Basics course held on the previous day. Anyone who needs a thorough understanding of the Supply of Machinery (Safety) Regs, should take this course in combination with the designing and selecting safe machinery course held on the following day.

## Course includes

- What is the difference between hazard and risk and other definitions
- Hazard Identification process and techniques



- Risk Estimation process and techniques
- Risk evaluation, what does ALARP mean in practice
- Assessment, handling and control of hazardous substances
- Reasonably foreseeable misuse, an introduction to human factors
- Machine interventions
- Risk assessment practice

## Who should attend?

This course is aimed primarily at machinery users, maintenance engineers, designers and project engineers who need to learn how to carry out risk assessment of existing machinery in use or new machinery in the process of being specified, supplied or under development. This course will also be of benefit to safety professionals who are familiar with the concepts but need to know how machinery risk assessment differs from other workplace safety or risk assessments.

## Venue

The course will be run at the HSL laboratory in the spa town of Buxton. Buxton is in the heart of the Peak District and has good links to mainline train stations and Manchester International Airport.

Details of hotels in the Buxton area can be found at [www.visitbuxton.co.uk](http://www.visitbuxton.co.uk)

## Cost

The cost of this course is £450 per person (includes course notes, lunch and refreshments).

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## **HSE: PUWER-Machinery Safety Basics – Buxton, 11 Sept 2017**

[Book Course](#)

HSL is to run a 1 day course on Machinery Series – PUWER.

**11 September 2017**

### **Introduction**

Machinery is used in many sectors to fabricate, handle and package industrial and consumer products. Everyone who works with machinery, whether directly or indirectly, need to understand the basics of machinery safety but not everyone needs to know all the details relating to the design. This course covers those activities regulated by the Provision and Use of Work Equipment Regulations (PUWER) and provides delegates with a thorough knowledge of this legislation. The course will also give practical advice on how to evaluate the safety of existing machines and how to measure and evaluate noise and vibration risks. This course can be taken in combination with the machinery risk assessment essentials course that takes place on the following day.

### **Course includes**

### **Who should attend?**

This course is aimed primarily at machinery users, maintenance engineers, safety officers and project engineers who may find themselves responsible for purchasing machinery or needing to make minor modifications to improve the efficiency or change the use of existing machinery. This course would also benefit anyone who needs a thorough understanding of the provision and use of work equipment regulations.

## Venue

The course will be run at the HSL laboratory in the spa town of Buxton. Buxton is in the heart of the Peak District and has good links to mainline train stations and Manchester International Airport.

Details of hotels in the Buxton area can be found at [www.visitbuxton.co.uk](http://www.visitbuxton.co.uk).

## Cost

The cost of this course is £450 per person (includes course notes, lunch and refreshments).

[Book Course](#)

**Please note the invoice option is not available within 4 weeks of the course date, or for overseas customers. If you are selecting the invoice option for payment, it will be mandatory to input a purchase order/reference number as we are unable to process booking forms without this.**

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## **Birmingham Working Well Together Group** **– Free Harness Awareness Training –** **various dates available**

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## **NMHSAG – Occupational Health and Safety Young Person of the year Award 2017**

North Manchester Health, Safety and Advisory Group (NMHSAG)

### **About the award**

Do you know anyone worthy of receiving a young person health and safety award in recognition of their efforts in the work place? Why not encourage and support them to enter for the 2016 Jeff Marsh Award.

The award is open to nominations for young people age 16 – 25 years who have contributed to improvements in occupational health and safety. The Award is offered by the North Manchester Health and Safety Advisory Group.

NMHSAG is a member of Safety Groups UK and The Royal Society for the Prevention of Accidents.

### **Further information**

**Closing Date** 15/04/2016

**Winner notified** 15/05/2016

**Prize Awarded** June 2016 (Date TBA)

For more details visit the [2016 H&S Young Person Annual Award](#) web page or contact Kelly by e-mail on <mailto:khaslam@olceurope.com>.