

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

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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).

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**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.**

[Back to Health & Safety Training Courses](#)

[Back to the top](#)