

Safety of Machinery Update Course

A 1 day course on the “NEW” Machinery Directive



Changes under the “New” Machinery Directive & the revised requirements for Marking of Machinery

The “NEW” Machinery Directive, 2006/42/EC became effective on 29th December 2009.

This 1 day course, accredited by **TÜV Rheinland UK**, will help manufacturers, importers and users of machinery become familiar with their new obligations under the “NEW” EU Machinery Directive and to bring them up-to-date with the revised and new harmonised standards and, in the UK, the NEW Supply of Machinery (Safety) Regulations 2008.

In support of the Essential Health & Safety Requirements of the New Directive, most of the “Safety of Machinery” Harmonized Standards (EN’s) are being revised and new ones published.

Course Units Overview:-

1 - Europe & Directives

Objective:-

To review the aims of the European Union and their implementation using European Directives and how the essential requirements of the “New Approach” Directives relate to CE Marking.

Key Topics:-

- Single European Market
- European Directives & their adoption into UK Law
- New Approach Directives, Essential Requirements & the CE Mark
- CE Marking Directives
- Machinery Directive and its Essential Requirements & the implications of Annex IV
- Associated Directives:-
 - Low Voltage Directive & its Essential Requirements
 - EMC Directive & its Essential Requirements
 - Pressure Equipment Directive & its Essential Requirements
 - ATEX Directives & their Essential Requirements
 - Use of Work Equipment Directive
 - General Purpose Products Directive

2 – Changes to the Machinery Directive

Objective:-

Examination of the Machinery Directive in general and the changes and implication of the changes made by the “New” Machinery Directive.

Key Topics:-

- Objectives of the MD
- Changes in the scope, coverage and application of the MD
- What’s in & what’s out
- Definitions of machinery, safety devices, lifting equipment, etc.
- New ways of dealing with electrical equipment
- Changes to the “special procedures” in Annex IV
- What is meant by “full quality assurance procedure”
- Preparing Instructions
- Responsibilities
- Placing machinery on the market and putting it into service

3 – Changes to the Essential Health & Safety Requirements

Objective:-

Examination of the Essential Health & Safety Requirements (EHSR’s) under the “new” Machinery Directive and the changes that have been made.

Key Topics:-

- What are Essential Health & Safety Requirements
- Importance of Risk Assessment & Risk Reduction
- General changes
- Changed requirements for control systems
- Changes in the requirements for guards & protective devices
- Adoption of the safety objectives of the Low Voltage Directive
- Enlargement of the scope of risks to be considered
- Application of the ESHR’s for special types of machines presenting particular hazards

4 – European Harmonised Standards

Objective:-

To develop an understanding of the “Safety of Machinery” series of standards and their relationship with the Machinery Directive and CE Marking.

To indicate the relationship between UK, European and International standards.

To introduce the core “Safety of Machinery” standards and new & revised standards being introduced in support of the “New” Machinery Directive and so called “Functional Safety”.

Key Topics:-

- What is a Standard?
- UK, EU & International Standards
- What is a Harmonised Standard?
- Structure of a Harmonised Standard
- Safety of Machinery Standards – A, B & C type standard relationships
- An overview of the Safety of Machinery “core” standards
- “Functional Safety” – the relevance of EN 61508, EN 62061 & EN ISO 13849

5 – CE Marking

Objective:-

To develop an understanding of the purpose of CE Marking and what manufactures and importers of machinery and associated equipment must do to comply and be able to apply the mark under the “New” Machinery Directive..

Key Topics:-

- Purpose of the CE Mark
- How do manufactures and importers of machinery comply?
- The “Authorised Representative” in the EU
- What is meant by “placing on the market”
- What the CE Mark indicates
- The sequential process of “CE Marking”
- Compiling a Technical Construction File
- Dealing with “partially completed equipment”
- Preparing a Declaration
- Applying the CE Mark
- Enforcement

For more details contact:

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