

Safety of Machinery Training Course (2010)

EU Directives, UK Regulations and Standards for Machines (for Directors and Managers)

Course Purpose

The objective of this course is to make Directors and Managers aware of the Machinery related European Directives, their company's obligations under the Machinery Safety Regulations and how the use of standards can guide the way to compliance with their "essential requirements".

Course Accreditation

This course has been recognized by **TÜV Rheinland** as a "Level 3" program of study and meeting the quality management and quality system elements as defined by EN29004-2 / ISO9004-2.

Course Objectives

Learning objectives of this course:-

- To provide a working knowledge of the "new" European Machinery Directive and the Directives associated with it.
- To understand the "Essential Requirements" of Directives and the process of CE Marking.
- Familiarity with Harmonised Standards and their relationship with the "Essential Requirements" of Directives.
- Understand how the Machinery Directive is enacted in the United Kingdom.
- To understand the process of risk assessment, risk evaluation and risk reduction.
- How to legally apply the EU CE Mark,
- To recognise the need for adequate "safe systems of work".
- How to comply obligations under the Provision and Use of Work Equipment Regulations 1998.
- To establish a safe working culture at the machine shop floor.

Who will benefit?

This course is designed for Directors and Managers responsible for the compliance of their machinery products and the provision and use of machinery in the workplace.

Prerequisites

There are no prerequisites for this course.

Course “Module” Overview:-

Europe & Directives – (Module 1)

Objective:-

To develop an awareness of the aims of the European Union and their implementation using European Directives.

To introduce the Directives that call for CE Marking and to examine the essential requirements of the “New” Machinery Directive and the associated directives that may be applied in the machinery industry.

Key Topics:-

- Single European Market
- European Directives & their adoption into UK Law
- New Approach Directives, Essential Requirements & the CE Mark
- CE Marking Directives
- “New” Machinery Directive, its Essential Requirements & the implications of Annex IV
- Changes brought about by the “New” Machinery Directive
- Associated Directives

CE Marking – (Module 2)

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 the CE Mark indicates
- The need for a Technical Construction File
- Preparing a Declaration of Conformity or Incorporation
- Applying the CE Mark
- Enforcement

Buying & Using Machinery – the CE Mark & PUWER – (Module 3)

Objective:-

To understand the obligations under the Provision & Use of Work Equipment Regulations (PUWER98) and who is responsible.

Methods of undertaking a PUWER98 “audit” and how PUWER98 is enforced.

Key Topics:-

- Who is responsible for what?
- Buying a new machine & protecting investment.
- Purpose of PUWER98?
- The difference between CE Marking & PUWER98
- What is a PUWER Audit and when and how often should it be undertaken?
- Enforcement

European Harmonised Standards – (Module 4)

Objective:-

To develop an understanding of standards and indicate the relationship between UK, European and International standards.

To examine the purpose of European Harmonised Standards, their development and relationship with Directives and CE Marking.

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

Risks Assessment – (Module 6)

Objective:-

To remove the “mystique” associated with Risk Assessment.

Assessing risks associated with machinery and their application environment and how control over the risks may be applied.

Examination of qualitative and quantitative method of risk assessment and how they are most suitably applied.

Key Topics:-

- What are hazards & risks?
- What is Risk Assessment?
- Risk Assessment as a problem solving “Tool”
- Types of risk
- Risk Control - Hazard identification, Risk Evaluation & Management
- Methods of Risk Assessment – Qualitative & Quantitative
- What is “suitable & sufficient”?
- Identification of Residual Risks

Risk Reduction – (Module 7)

Objective:-

To develop an understanding of the methods and processes of risk reduction related to risk assessment.

To examine various hierarchical methods of risk reduction.

Key Topics:-

- Fundamentals & objectives of Risk Reduction
- The “3 step method” of risk reduction
- What is “reasonable practicability”
- Dealing with Residual Risks

Supplementary – Surgery

Objective:-

An opportunity for the attendees to introduce their “real” problems, machines and equipment, discuss and to apply and implement the knowledge gained under guidance of the presenter.

Note: the supplementary units are subject to the needs of the attendees and the venue. Surgery may require attendees wishing to bring drawings, documentation, photos, etc, and for on-site training, access to the equipment would be an advantage. Preparation is essential.

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