Course Description:

Who is the course for?

This eLearning course is aimed at individuals involved in planning, implementing or working with mechanical isolations.

Is previous experience required?

There is no requirement for prior knowledge or experience before completing this course and it is assumed that you are competent in your designated role.

How will the course benefit me?

Correctly isolating process systems means that work can be carried out on those systems safely. The knowledge gained in this course will help you understand the key stages involved in mechanical isolations and the systems and process in place to ensure isolation security. It will identify the various roles and responsibilities involved in carrying out mechanical isolations.

How will the course benefit my company?

By ensuring that mechanical isolations are carried out correctly, you contribute to protecting the asset, your fellow workers and yourself. Understanding the different types of mechanical
isolation standards enables you to select the most appropriate standard to offer the correct level of protection.

**What standards are referenced in the course?**

This course does not contain specific reference to specific legislation or standards but is written to current HSE guidelines and industry best practice.

**How will I be assessed?**

Once you have completed the course, you will be asked a series of questions to check your knowledge and understanding. These are based on the learning objectives for the course and have a pass mark of 80%.

**Learning Objectives:**

- Define Mechanical Isolations
- Describe the typical roles and responsibilities involved in Mechanical Isolations
- Describe the Work Control Systems used to control Mechanical Isolations
- Identify the key stages in Mechanical Isolations
- Explain how the appropriate Mechanical Isolation Standard is selected
- Define the types of Mechanical Isolation Standards
- Describe the planning and preparation of equipment
- Explain how Mechanical Isolation Standards are implemented
- Describe the procedure for variations from Isolation Standards
- Describe the Blinding Procedure
- Describe the Venting and Flushing requirements
- Describe Integrity Testing, and the Proving and Monitoring of Mechanical Isolations
- Explain how to achieve Mechanical isolation security
- Explain how the Lock Out System works
- Explain how the use of lock out keys is controlled via lockout boxes
- Explain the use of tagging
- Identify De-isolation procedures
- Identify the reinstatement of plant procedures and considerations