Introduction to the Theory of Gas Compression

**Course Description:**

**Who is the course for?**

This eLearning course is aimed at individuals working in the oil and gas industry who require an overview of gas compression theory. As an introductory course, it is particularly suited to those who are new to their role or the industry.

**Is previous experience required?**

You do not need prior knowledge or experience to complete this course and it is assumed that you are competent in your designated role.

**How will the course benefit me?**

Gas is compressed so that it can travel long distances down pipelines to gas gathering stations. This course will give you a basic understanding of the different types of gas compressor and how they operate.

It will also identify the factors that are taken into consideration when selecting a type of compressor to use for a particular purpose.
How will the course benefit my company?
By ensuring you are aware of how gas is compressed, you will have a better understanding of the gas processing operations that take place at your worksite. You will also increase your familiarity with your industry and the work that your company does.

What standards are referenced in the course?
This course does not refer to specific legislation or standards but is written to current HSE guidelines, industry best practice and standard operating procedures.

Is there an assessment?
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:
• Identify why gas is compressed
• Understand the different types of compressors
• Understand how gas is compressed in a reciprocating compressor
• Understand how pulsation is removed
• Understand how gas is compressed in a centrifugal compressor
• Know what influences the selection of different types of compressor used