

Fluid Power Design Solutions are delighted to announce that they are authorised by the British Fluid Power Association (BFPA) to deliver on their behalf a one day, '**Hose Integrity, Inspection and Management**' course.

This course is the successor to the 'Foundation Course in Working Safely with Hydraulic Hose and Connectors' and the 'Hose Assembly Skills Training Programme' which **Fluid Power Design Solutions** have been delivering since early 2010 and early 2011 respectively.

This course covers the various theoretical and practical elements involved in the inspection and management of hose assemblies and associated components. During the day the candidate is trained to an assessed level of ability in the inspection and management of hose assemblies and associated components, the following elements are covered:

Chapter 1 – Life Expectancy

- considerations as to how long a hose assembly should last in service
- understand the 3 distinct stages where failure can occur in the life of a hose assembly
- understand the factors which help to determine the expected service life of a hose assembly
- benefits of rubber hose – overview
- benefits of thermoplastic hose – overview
- advantages of rigid pipe and hose assemblies
- the 9 phases within the life cycle of a hose assembly

Chapter 2 – Risk Analysis

- risk analysis
- defining the consequences of failure for a hose assembly
- defining the probability of failure for a hose assembly
- calculating the resultant risk
- analysing the results of the risk assessment
- a risk based inspection programme

Chapter 3 – Competence Assurance

- competence by way of a robust competence assurance system
- the competence assurance cycle
- a typical competence profile for personnel involved with hose assemblies
- industry definitions to distinguish a person who is competent, knowledgeable and aware

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ISO 9001 : 2015 Certificate Number 290302018 and ISO 14001 : 2015 Certificate Number 290312018

Chapter 4 – Identify, Inspect & Record

- ISO stipulated requirements for the identification of hydraulic hose assemblies including what information shall be included
- an overview of the methods commonly used to uniquely identify a hose assembly
- the visual inspection of a hose assembly upon receipt before it is put in to service
- supporting documentation for a hose assembly prior to it entering service
- Certificate of Conformity (C of C) and Test Certificates

Chapter 5 – Hose Register

- recording a hose assembly prior to it going into service/one already in service
- examples of a hose register and what information is typically contained in them

Chapter 6 – Visual Inspection

- hose assembly installation inspection check list
- ensuring that inspection is undertaken in a safe manner - making reference to Bfpa publication P113 'Fluid Injection Injury Emergency - The Facts'
- hose assembly in service inspection check list
- bulk hose branding - examples of branding methods commonly used
- examples of hose assembly damage/failure
- corrosion of the hose reinforcement
- inspection of equipment
- inspecting around mating parts
- galvanic (bimetallic) corrosion
- correct and incorrect use of hose whip checks
- inspecting quick release couplings

On completion of the course each candidate receives a copy of the spiral bound course material, a certificate of attendance and is registered with the Bfpa as having completed the course.

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