

# Working Safely with Hose and Connectors Online Training Course



This 3 hour training course has been designed to introduce delegates to the basic concepts of working with hydraulic and pneumatic hose and connectors. Correct safe working practices will be discussed along with the associated dangers of pressure injection injuries. (100 psi). The material injected can include (but is not limited to): oil, grease, paint, paint thinners, water and air. The people most at risk do not only include those who work in the mobile replacement hose business, but anyone who works around both hydraulic and pneumatic equipment under pressure can be at risk.

Delegates will learn about:

## Basic Hydraulics

- understanding what is meant by the terms, 'pressure', 'force' and 'area' and how these 3 factors are important
- a basic hydraulic circuit diagram is used to show typical components used to make up a simple circuit
- contamination – why cleanliness is important and what steps can be taken to minimize contamination levels

## Health, Safety and Environment

- health & safety legislation, duties of the employer and employee
- risk assessment – 5 steps to risk assessment
- hose assembly and installation safety consideration and the dangers of hose failure
- good & bad practice for health & safety when working with hydraulic systems

## Pressure Injection Injuries

- high pressure injection injuries – detecting pinhole leaks in a hydraulic system, the dangers of injection injuries, the importance of correct and prompt diagnosis and subsequent treatment
- how to avoid injection and burn injuries and what other safety matters should also be considered

## Hose and Connector Identification

- the importance of understanding the application, useful factors to consider
- hose end terminations, material types and end terminations commonly used in the fluid power industry
- hydraulic fluid types



## Installation

- correct installation of adaptors and hose assemblies
- environmental conditions which can cause hose and connector degradation

## Hose and Connector Failure

- reasons for hose and connector failure. How to reduce/eliminate the likelihood of failure occurring
- not re-ending hydraulic hose assemblies or not mixing and matching.
- The stance of the BFPDA and other bodies within the fluid power industry on these important topics

## FOR FURTHER INFORMATION ON DATES, COSTS AND AVAILABILITY:



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