



A one day course covering the basics of working with hydraulic hose

Purpose of Course

This one day course has been developed to provide an introduction into hydraulic hose, connectors and the safe assembly of these components for industry use. On completion the attendee will have a knowledge and understanding of safe hose assembly manufacture and, if applied, will only enhance the safety within the fluid power industry and the attendee .

In-House Courses;

In-house courses may be conducted. Prices on application.

Who should attend?

- OEM artisans, foremen, supervisors and managers
- All personnel involved in the assembly and supply of hydraulic hose and connectors

On completion of the course delegates will:

- Attain the knowledge to enable correct and safe selection of hose and connectors.
- Be able to demonstrate the key processes that ensure safe manufacture of hydraulic hoses.
- Know the dangers associated with incorrectly specified, assembled and installed hoses.
- Understand the effect of contamination within hydraulic systems and know the important disciplines to ensure contamination free hoses.

Course Content:

- Basic Hose Principles
- Health, Safety and environment
- Hose and Connector Selection
- Hose Assembly
- Hose and Connectors Failure
- Important Rules
- Two Video presentations on hose manufacture and hose safety

Basic Hose Principles;

- Pressure
- Flow
- Hose Sizing
- Main System Components
- Contamination
- Hydraulic Fluids – Types

Health Safety and Environment:

- Legislation
- Risk Assessment
- Hose Assembly Safety Considerations
- Dangers of Hose Failure
- Site Safety
- Health & Safety, Hydraulic Systems.
- High Pressure Injection Injuries
- Injection Injury
- Burn Injury

Hose & Connector Identification:

- Understanding the Application
- Hose
- EN
- Correct Hose Selection
- Hose and Termination
- Hose Terms
- Connector Terms
- Hose and Thread Sizes
- Hydraulic Fluids – Types

Hose Assembly:

- Measuring
- Cutting
- Skiving
- Pre-assembly
- Orientation
- Crimping / Swaging
- General Inspection of Completed Hose Assembly
- Testing
- Cleaning

Installation:

- Installation

Hose and Connector Failure:

- Reasons for Failure
- Simple Rule
- Don't Mix and Match