

ABDEX GLOBAL TRAINING

NEW COURSES and NEW LOCATION IN ABERDEEN!



Delivered worldwide - **Onshore** and **Offshore**.

Courses	Delivered and Certified by	Duration	Delegates	Test / Qualification
Hose Crimping, Integrity and Asset Management	BFPA / Abdex	2 days	8	Certificate / Passport
Hydrostatic Proof Pressure Testing - NEW	BFPA / Abdex	1 day	8	Certificate / Passport
Foundation Course in Working Safely with Hydraulic Hose and Connectors	BFPA / Abdex	1 day	8	Certificate / Passport
Hose Integrity, Inspection and Management	BFPA / Abdex	1 day	8	Certificate / Passport
Small Bore Tubing Integrity Course	BFPA / Abdex	1 day	8	Certificate / Passport
Mechanical Joint Integrity (MJ10/18/19) - Manual Torque / Hydraulic Torque / Hydraulic Tension - NEW	ECITB / Hi-Force / Abdex	1 to 2.5 days	4	Tests / Certificate / ICE Card
Mechanical Joint Integrity - NEW	BFPA / Abdex	1 to 2.5 days	8	Certificate / Passport
Hydraulic Service and Repair - NEW	BFPA / Abdex	1 to 4 days	4	Certificate
Hydraulic Hose Crimping Machine Calibration and Maintenance	Abdex / Uniflex	1 to 2 days	4	Certificate

Fully Tailored Courses also available on flexible long term and short term Contracts. Course refreshers on all courses required / recommended 3 years from completion.

Working together to deliver quality and relevant training:



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Abdrex Hose
Crimping, Integrity
and Asset Management



FOUNDATION COURSE IN WORKING SAFELY WITH HYDRAULIC HOSE AND CONNECTORS

ABOUT THE COURSE
This is a one day course and is designed to allow the correct practice needed to work safely with and around hydraulic hoses. Designed as either an essential induction course for someone new to the industry or a specific safety course for people who are not already familiar with fluid power techniques but work from time to time on machinery containing hydraulic components. The day contains some presentation examples of safe working practices involving associated dangers of fluid transfer systems and examples of how safety can be achieved from the correct components. A high quality presentation course, certification of attendance and registration on the BPPA National data base, plus both the attendee and employer certificate (all 100 correct methods and culture are being adopted and used).

WHY SHOULD YOU ATTEND THE COURSE
The recent training by the BPPA for HPI employees was assessed and rated exceptionally by many companies in the hydraulic field. If you would like a technical or any other 1 on one view from top to the line for you, please come along for your year's support.

Mr Steve Harding
Safety, Health & Environmental Manager,
Keweenaw Precision Machinery Ltd Ltd

**CHAPTER ONE
BASIC HYDRAULICS**

- understanding what is meant by 'pressure', 'pressure' and 'load' and how these 3 factors are important
- how to determine how close a hydraulic hose is operating to its limitations, flow rate, hose size and fluid velocity effect one another. The difference caused by a change of fluid temperature and fluid viscosity are also considered
- basic hydraulic circuit diagrams is used to show typical components used to make up a simple circuit
- contamination - why cleanliness is required by your customer and what steps can be taken to minimise contamination levels

**CHAPTER TWO
HEALTH, SAFETY & ENVIRONMENT**

- hazards & safety legislation, duties of the employer and employee
- competency - how is it defined
- risk assessment - 5 steps to risk assessment
- how assembly & installation safety, maintenance & the dangers of those failures
- workplace safety
- good & best practice for health & safety when working with hydraulic systems
- high pressure reaction injuries - identifying possible risks in a hydraulic system (this is supported by 3 recent OSHA's showing the dangers of reaction injuries, the importance of correct and proper alignment and subsequent handling)
- how to avoid reaction and burn injuries and what other safety matters should also be considered

**CHAPTER THREE
HOSE & CONNECTOR IDENTIFICATION**

- the importance of understanding the application, useful factors to consider
- flexibility standards for hoses - DIN, ISO & SAE
- hose sizes
- hose selection
- hose and connectors, material types and terminations commonly used in the fluid power industry
- hydraulic fluid types

**CHAPTER FOUR
HOSE ASSEMBLY**

- the industry standard method of measuring hose assembly - correct length
- cutting the hose to length - the importance of, a good cut
- welding - internal and external
- possibilities of new joints and how these should be done
- proper preparation and base line when hose assembly has been completed
- correct preparation - covering all aspects from correct die, crimping technique, correct positioning of the hose assembly within the machine, measuring the crimp correctly, making sure the crimp is correct and ensuring that the operation has been completed correctly
- global sample inspection plan for various hose assembly manufacturers
- correct testing of hose assemblies - valid based on working pressure and application
- training and protecting of hose assemblies prior to supplying to the customer

**CHAPTER FIVE
INSTALLATION**

- correct installation of adapters and hose assemblies
- environmental conditions which can cause hose and connector degradation
- good & best practice when tightening up connections
- good & best practice for installation, connecting hoses such as bend radius, natural hose bend and reducing differential caused by abrasion, heat, aging and tracking

**CHAPTER SIX
HOSE & CONNECTOR FAILURE**

- reasons for hose and connector failure, how to determine the likelihood of failure occurring
- why hydraulic hose assemblies - CO2 & 6000 psi and more. The nature of the BPPA and other make sense in the full power industry on these two important topics




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