

Accumulator/Pulsation Dampener Course

This course is a hands-on introduction to the operation and application of high pressure accumulators undertaken in a workshop environment. The course content has a ratio of 70/30 practical and theory exercises. This course covers the topics such as, safety practices, repair, overhaul and inspection, different applications using hydraulic circuits and breakdown within the oil Industry.

Course Outline

- Safety
- Operation of Accumulators
- Application of Accumulators in Hydraulic Systems
- Pulsation Dampers and Shock Absorbing Types
- Maintenance and Pre-Charge

Course Duration

- 1 Day

Certification

There are test questions with a 65% pass rate required. After successful course completion students receive a certificate accredited by International Association of Drilling Contractors Drilling Industry Training (IADC DIT) and British Fluid Power Association (BFPA).

Course Overview

The course is a mix of theory and practical exercises. Each delegate should expect to be asked around 3-4 spot questions throughout the day, which will be recorded and included in the final pass mark. Delegates are evaluated by means of an examination with a pass rate of 65% and above.

If you are interested in attending the course or looking for more information about the training please contact

COURSE CONTENT AIMS AND OBJECTIVES

SECTION 1: SAFETY

Learn correct safety practices when working with accumulators.

SECTION 2: OPERATION OF ACCUMULATORS

Learn how various types of accumulator work, including piston, bladder and float.

SECTION 3: APPLICATION OF ACUMULATORS IN HYDRAULIC SYSTEMS

Learn advantages and disadvantages of accumulators in a system.

SECTION 4: PULSATION DAMPERS AND SHOCK OBSORBING TYPES

Learn about the typical application in the offshore Industry.

SECTION 5: MAINTENANCE AND PRE-CHARGE

Learn how to properly and safely pre-charge an accumulator with nitrogen gas.

SECTION 6: PRACTICAL SESSION

Practical session activities include disassemble a bladder type accumulator, inspect all components for damage and wear, install spare parts, pre-charge with nitrogen gas and test for leaks.