

HYDROGEN SKILLS ACADEMY

Hydrasun Hydraulic Systems Accumulators Maintenance and Pre-Charging Course

The Hydrasun Hydraulic Systems Accumulators Maintenance and Pre-Charging Course is aimed at giving candidates the required knowledge, skills and understanding of Industry best practice as published by the British Fluid Power Association for working with systems containing accumulators. It will show the importance of following correct procedures when inspecting, and maintaining accumulator systems and the pre-charging of accumulators.

On successful completion, the delegate will be awarded a Hydrasun certificate of attendance.

COURSE DURATION

- 2 days

PRE-REQUISITE

- None

CERTIFICATION

- Hydrasun certificate of attendance

TRAINER

- Our trainers and assessors have been certified by external accreditation bodies

COST

- Price on application – maximum 6 delegates per course

COURSE DETAILS

What is an accumulator?

- Background concepts
- How does an accumulator work
- ISO1219-1 accumulator symbols

Applicable regulation regarding accumulators

- Certification and inspection
- Pressure equipment directive
- Pressure systems safety regulations
- BFFPA/54

Accumulator safety

- Hydraulic and gas side safety
- Incidents and hazards
- Precautions

Accumulator types and construction

- Bladder
- Diaphragm
- Piston
- Pulsation dampers and shock absorbers
- Transfer barriers and back up bottles

Accumulator applications

- Power unloading
- Short and long term storage
- Damping and noise reduction
- Shock absorption
- Maintaining pressure and energy recovery

Pre-charge maintenance and inspection

- Charging accumulators
- Checking pre-charge pressure
- Gas pressure intensifiers
- Pre-charge pressure problems

Installation

- Mounting limitations
- Handling and storage

Practical activities

- Perform a routine inspection of an accumulator
- Charge an accumulator to the pre-charge condition
- Complete a written report of maintenance

Assessment

- Multiple choice question paper