



TECHNICAL TRAINING CATALOG



Our technical training offer



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Webinar training sessions

We are able to organize webinar training sessions for most of courses described in this catalog, increasing the training capacity development available to you.

We carefully evaluate and respond to any dedicated training request.



Contact

**For more information or to request a dedicated training,
please contact :**

PHTC_Contact@poclain.com



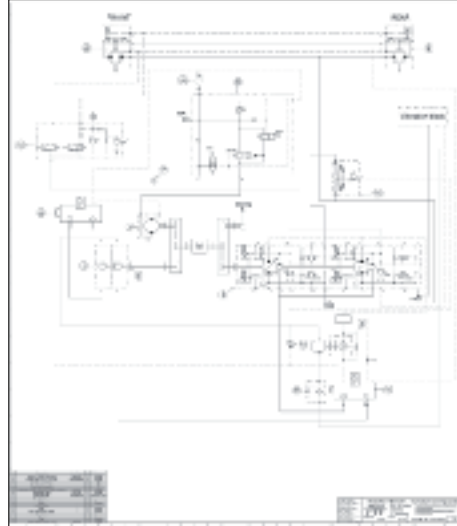
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GENERAL TRAININGS

Understanding hydraulic symbols and circuits

Program

- Basic symbols
- Pump, motor and cylinder symbols
- Circuit components
- Poclain standards
- Technological and functional schematics studies



Training goals

- ➔ Be able to identify hydraulic components on schematic and understand Poclain schema

Prerequisites

- Technician level with basic mechanical and hydraulic knowledge
- Hydraulic component basic knowledge
- Ability to read cutaway drawings

Trainee profile

- Poclain's technicians or anybody who needs to use hydraulic schematics

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book

Skills assessment

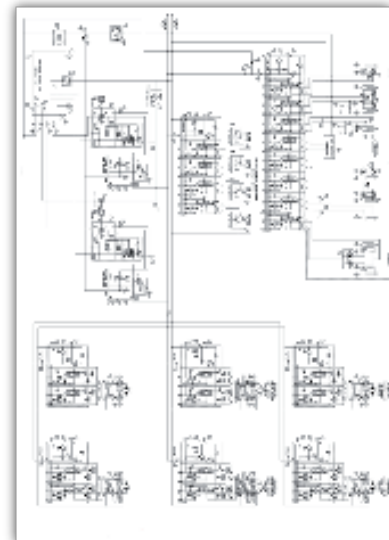
- Validation by MCQ at the end of the training



Understanding advanced hydraulic circuits

Program

- Closed loop circuit reminders
- Poclain basic circuit studies (understanding & analysis)
- Poclain specific circuit studies (understanding & analysis)



Training goals

- Be able to identify hydraulic circuits
- Understand complex Poclain hydraulic schematics
- Analyze a hydraulic schematic

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Solid knowledge in hydraulics
- Technician level with hydraulic knowledge and having completed:
 - Fundamental training program
 - Product training program
 - Hydraulic symbol and circuit understanding

Trainee profile

- Poclain's technicians or designers who need to analyze or design hydraulic schematics

2.5 days
20 hours

MS motor offering



Program

- MS motor functioning
- MS detailed technology
- MS second displacement
- MK motors
- Special motors
- MHP motors
- Options and adaptations

The training can be adapted in order to address the specific components useful to the trainees.

Training goals

- ➔ Be able to explain the differences between different motor types and sizes.
- ➔ Be able to codify the product correctly in relation to the Poclain catalogs and justify your choice according to the application.

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anyone who needs in-depth training on MS motors

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

1.5 days
12 hours

MHP motor offering



Program

- The second displacement
- MHP11, 13 & 17 (improvements / distribution / torque module / bearing support / options)
- MHP20 & 27 (improvements / distribution / torque module / bearing support / options)

The training can be adapted in order to address the specific components useful to the trainees.

Training goals

- Be able to explain the differences between different motor types and sizes.
- Be able to codify the product correctly in relation to the Poclain catalogs and justify your choice according to the application.

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

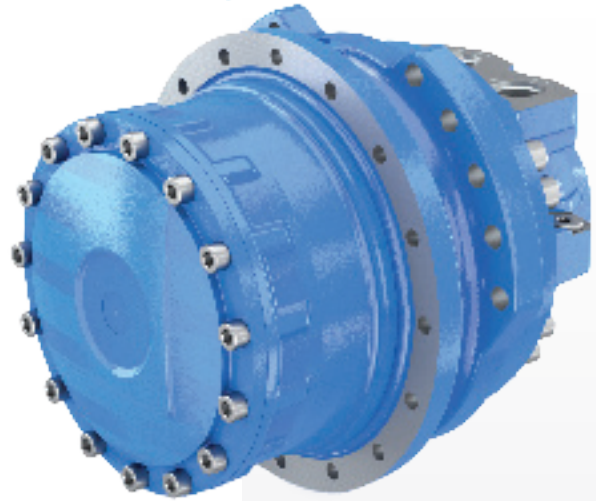
- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anyone who needs in-depth training on MHP motors

1 day
8 hours

MT07 motor offering



Program

- Presentation
- Motor functioning
- Motor detailed technology
- Second symmetrical displacement
- Options and adaptations

The training can be adapted in order to address the specific components useful to the trainees.

Training goals

- ➔ Be able to explain MT07 motors specificities and confirm his choice in function of the application.
- ➔ Be able to select and codify the right product in MT motor catalogs.

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anyone who needs in-depth training on MT motors



MG motor offering



Program

- **MG presentation**
 - Motor range
 - Benefits
- **MG motor detailed technology**
- **MG motor functioning**
- **Second displacement**
- **Options and adaptations**

The training can be adapted in order to address the specific components useful to the trainees.

Training goals

- Be able to explain MG motors specificities and confirm his choice in function of the application.
- Be able to select and codify the right product in MG motor catalogs.

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anyone who needs in-depth training on MG motors

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

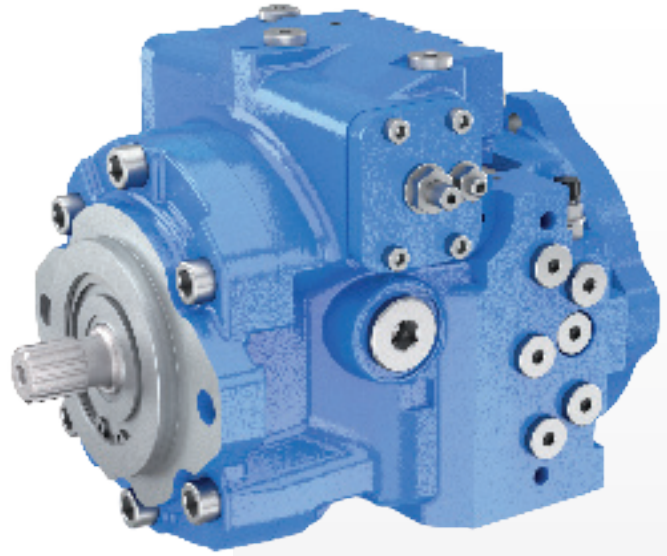
1 day
8 hours

Pump offering

Program

- Detailed technology
- Pump controls
- Options & adaptations

The training can be adapted in order to address the specific components useful to the trainees.



Training goals

- ➔ Be able to explain the differences between different pump types and sizes.
- ➔ Be able to codify the product correctly in relation to the Poclairn catalogs and justify your choice according to the application.

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclairn' core products and systems

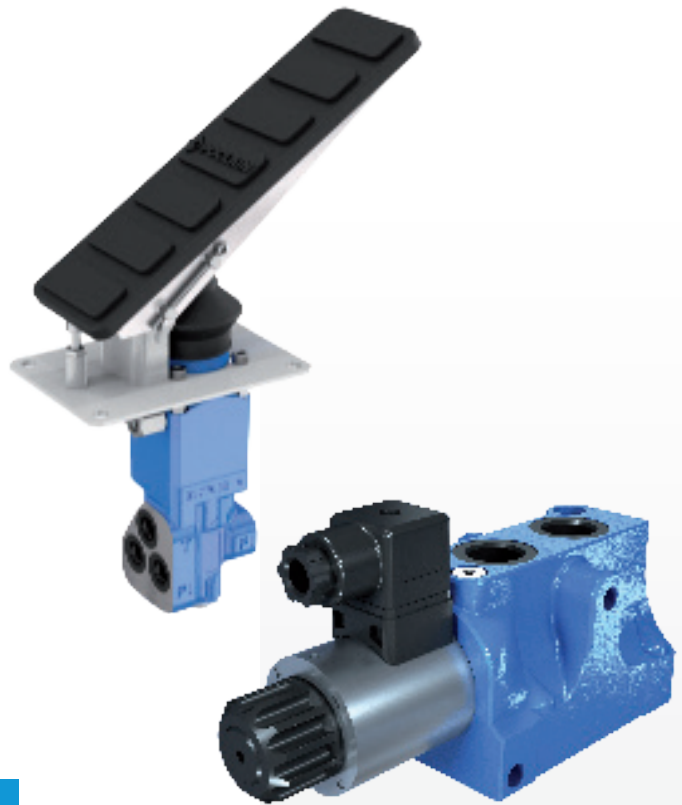


Valve offering

Program

- VOL products - Open loop valves
- VPT products - Power transmission valves
- VB products - Brake valves
- Customized products

The training can be adapted in order to address the specific components useful to the trainees.



Training goals

- Explain the function of the valves and their position in a basic circuit
- Select and codify the right product in Poclain valve catalogs

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclain' core products and systems

1 day
8 hours

Braking offering

Program

- Technologies of Poclain brakes
- Poclain braking valves
- Schematic studies with Poclain braking valves



The training can be adapted in order to address the specific components useful to the trainees.

Training goals

- Identify and describe the different components and technologies of Poclain brakes
- Be able to explain the function of the valves and their position in a basic circuit
- Study schematics incorporating Poclain braking valves

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- eTraining book
- Tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer with basic mechanical, hydraulic and electronic (on mobile application) knowledge

Trainee profile

- Sales and application engineers
- Anybody who needs to know how to define a braking system

0.5 day
4 hours

Braking system fundamentals

Program

- Braking technologies
- Standards and calculation

The training can be adapted in order to address the specific components useful to the trainees.

Training goals

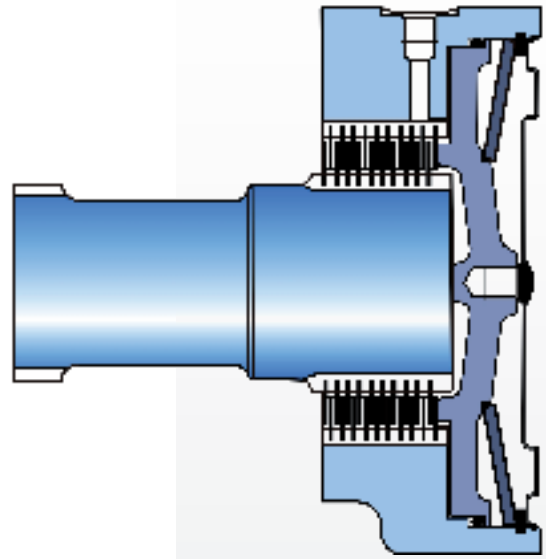
- Visualize and understand the analogy between different braking technologies
- Understand the principle working, design and symbolization of the main components of braking systems
- Understand the different functions of circuit and the management of elements
- Identify and describe the different components and technologies of Poclairn brakes

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- eTraining book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training



Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer (mechanical, electrical or hydraulic) basic knowledge

Trainee profile

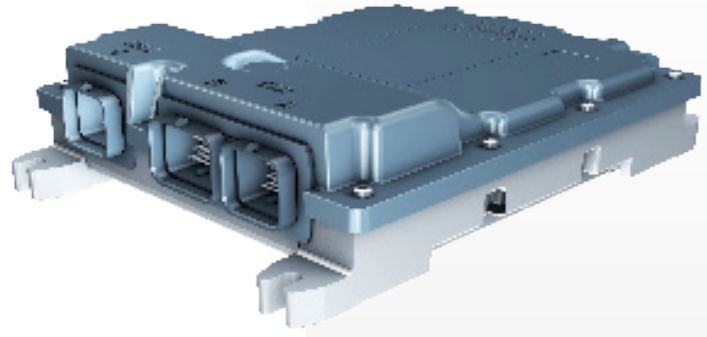
- Sales and application engineers
- Anybody who needs general knowledge on braking technologies

0.5 day
4 hours

Electronic offering

Program

- **Electronic components**
 - ECU range
 - Displays
 - Sensors
- **Electronic functions**
- **Phases-CT**



Training goals

- ➔ Explain the different functions offered to safely manage a hydrostatic transmission
- ➔ Be able to codify the right product in Poclain electronic catalogs

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclain' core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts.

Skills assessment

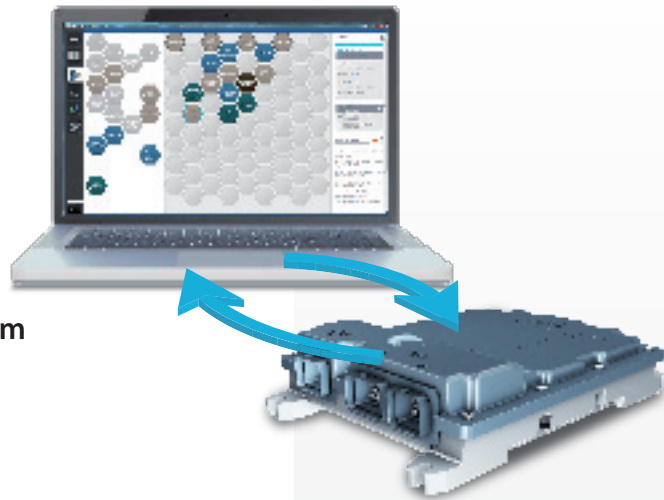
- Validation by MCQ at the end of the training



CT-Design propel platform

Program

- System and electronic offering
- Symbols
- Functions of the CT-Design propel platform
- Puzzle
- CT-Design software presentation
- Design and embedded software



Training goals

- Know the functions available in the propel platform of CT-Design. Select them and set them up correctly for an application

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclair Hydraulics core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- eTraining book

Skills assessment

- Validation by MCQ at the end of the training

1 day
8 hours

Hydraulic fluid contamination & filtration system

Program

- Identify a hydraulic fluid
- Define pollution sources of a hydraulic fluid
- Limit pollution in a hydraulic system
- Design hydraulic filtration system



Training goals

- ➔ Acquire fundamental knowledge on hydraulic oils
- ➔ Be able to select and correctly position a filter element in a hydraulic installation

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Fundamental training package completed and/or validated by a MCQ

Trainee profile

- Test department technician, application engineer
- Anybody who works on or designs a hydraulic system

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts.

Skills assessment

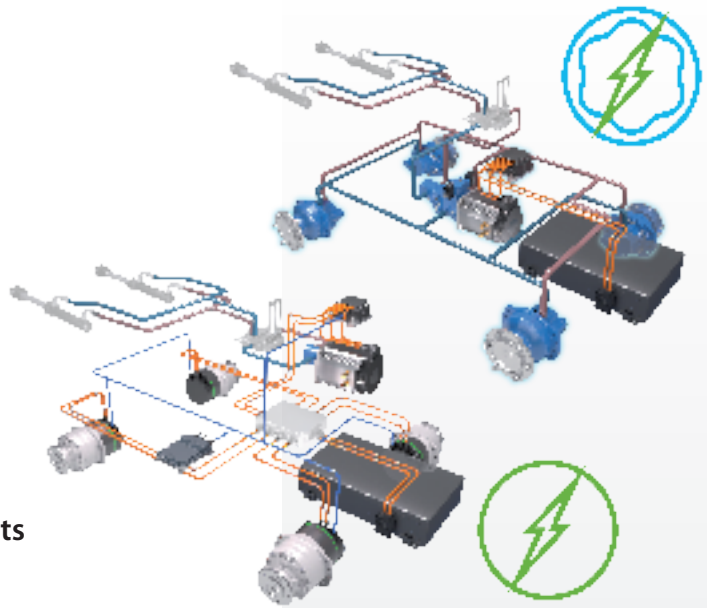
- Validation by MCQ at the end of the training



eMobility overview

Program

- Fundamentals
- Introduction to the e-Mobility program
- Safety aspects
- Role of an inverter
- Role of an eMotor
- eWheel
- System architectures and eMobility subjects
- Drum-e activities
- Activities on the eMobility training test bench
- What is FUSA?



Prerequisites

- None

Trainee profile

- Anybody who needs general knowledge on eMobility program technologies

Training goals

- At the end of this training, you will be able to recognize the different types of eMobility architectures, the functions of the main components, but also understand security aspects relative to those technologies

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- eTraining book
- Training benches and Drum-e

Skills assessment

- Validation by MCQ at the end of the training





2

**APPLICATION
& SYSTEM
TRAININGS**

Assistance and anti-skid

Program

- Grip conditions
- Assistance principle
- Anti-skid solutions
- Application examples
- Validation exercises



Training goals

- ➔ Visualize and understand the Poclain assistance and anti-skid systems.
- ➔ Acquire the knowledge necessary to recommend an assistance or anti-skid solution according to customer requirements and application.

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ.

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclain core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

1 day
8 hours

On-road assistance

Program

- AddiDrive™ assistance principle
- System components and technologies
- AddiDrive™ electronic management
- System commissioning, maintenance and repair
- AddiDrive™ integration and piping



Training goals

- ➔ Recognize and pitch an Addidrive™ push offering
- ➔ Discern abnormal functioning or incorrect use of the system
- ➔ Provide advice about the integration and maintenance of the system

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclairn' core products and systems

0.5 days
4 hours

Twin-Lock™ principle

Program

- Refresh and validate hydraulic prerequisites
- Differential lock and torque transfer
- 2WD, 3WD and 4WD synchronization
- Twin-Lock™ circuit examples and studies



Training goals

- ➔ Learn about the structure and operating principle of the Twin-Lock™ system

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclairn' core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

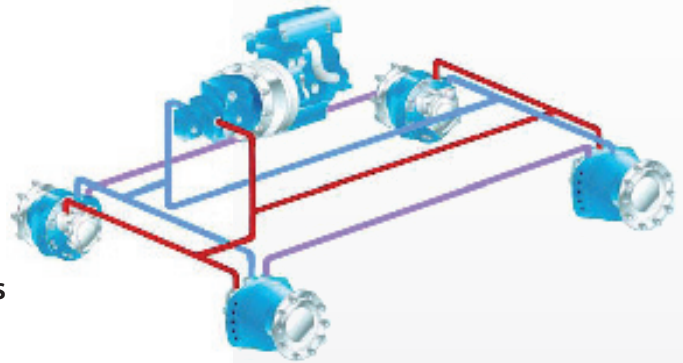
- Validation by MCQ at the end of the training



Twin-Lock™ specificities

Program

- Twin-Lock™ principle
- Twin-Lock™ motor codification
- Twin-Tock™ driving mode
- Twin-Tock™ system power transmission valves
- Application examples and circuit studies



Training goals

- ➔ Refresh and complete your Poclain Twin-lock™ system knowledge
- ➔ Size and codify a Twin-lock™ solution including specific motor options and power transmission valves into the circuit as a function of the customer requirements and the application specificities

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclain' core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

1 day
8 hours

CreepDrive™ motor and system

Program

- CreepDrive™ motor description
- CreepDrive™ function
- Features and benefits
- Electronic functions available



Training goals

- ➔ Be able to select and codify the right product in Poclair catalogs.
- ➔ Acquire the knowledge about the CreepDrive™ function & offer.

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclair' core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

0.5 days
4 hours

Swing drive

Program

- Swing drive function
- System features
- Application examples



Training goals

- Visualize and understand the Poclain swing drive system
- Acquire the knowledge necessary to recommend a swing drive solution as a function of the customer requirements and the application specificities.

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

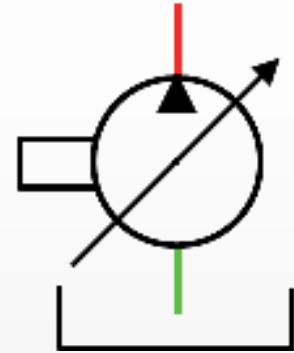
- Sales and application engineers
- Anybody who needs in-depth training on Poclain' core products and systems

0.5 days
4 hours

Open loop circuit specificities

Program

- OLC basic reminders
- Flow control by valves for fixed displacement pump
- Load sensing & flow sharing with fixed displacement pump
- OLC variable displacement pumps & controls
- MS motor in OLC



Training goals

- ➔ Read and understand an open loop circuit application schematic
- ➔ Design Poclairn product integration in an open loop circuit

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)
- Product training package completed and/or validated by a MCQ

Trainee profile

- Sales and application engineers
- Anybody who needs in-depth training on Poclairn' core products and systems

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

2 days
16 hours

3

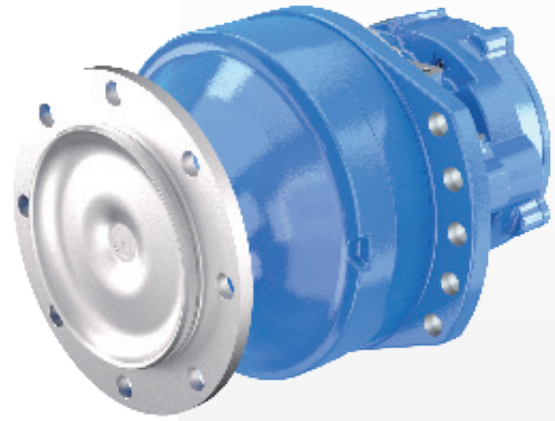
CUSTOMIZED TRAININGS

MS motors repair



Program

- Fundamental principles
- Motor functioning
- Closed loop circuit
- Detailed motor technology
- Dual displacement motors
- Options and adaptations
- Diagnostic methodology



Training goals

- Visualize and understand motor function
- Understand the different parts and technologies
- Diagnose and locate a motor breakdown and its origin
- Disassemble and reassemble motors and their sub-assemblies
- Analyze the conformity of the motor's parts according to codification
- Order the right spare parts

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)

Trainee profile

- Technicians in charge of the maintenance of a hydrostatic transmission equipped with Poclain motors

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

3 days
24 hours

MHP motors repair



Program

- Fundamental principles
- Motor functioning
- Closed loop circuit
- Detailed motor technology
- Dual displacement motors
- Options and adaptations
- Diagnostic methodology



Training goals

- Visualize and understand motor function
- Understand the different parts and technologies
- Diagnose and locate a motor breakdown and its origin
- Disassemble and reassemble motors and their sub-assemblies
- Analyze the conformity of the motor's parts according to codification
- Order the right spare parts

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

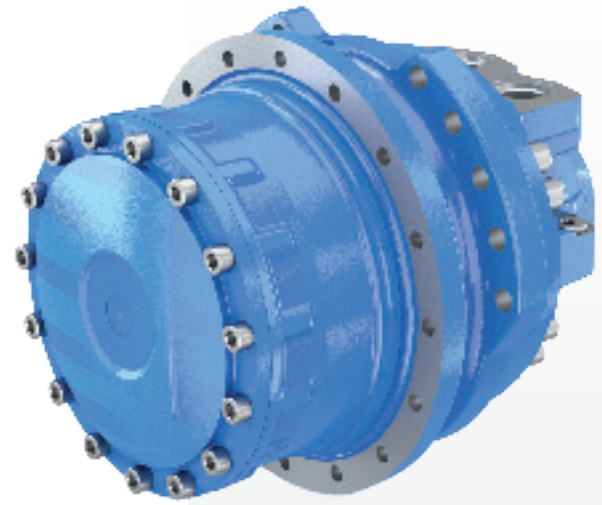
- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)

Trainee profile

- Technicians in charge of the maintenance of a hydrostatic transmission equipped with Poclain motors

2 days
16 hours

MT07 motor repair



Program

- Presentation
- Training in workshop

Training goals

- Visualize and understand motor function
- Understand the different parts and technologies
- Diagnose and locate a motor breakdown and its origin
- Disassemble and reassemble motors and their sub-assemblies
- Analyze the conformity of the motor's parts according to codification
- Order the right spare parts

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)

Trainee profile

- Technicians in charge of the maintenance of a hydrostatic transmission equipped with Poclain motors

Teaching methods

- Live from a trainer in the classroom
- Multimedia presentations and supports
- Training book
- Training benches, tools and real parts

Skills assessment

- Validation by MCQ at the end of the training



PM pumps repair



Program

- Fundamental principles
- Pump functioning
- Hydrostatic transmissions in closed loop circuit
- Detailed pump technology
- Options and adaptations
- Training in workshop



Training goals

- Explain the function of the Poclair pump and its technology.
- Diagnose and locate the likely origin of the breakdown.
- Dismount and reassemble the sub-assemblies of Poclair pumps.
- Analyze the pump's part conformity.
- Differentiate the various components in order to order the right spare parts.

Teaching methods

- Training book
- Image with different media, slide show, virtual animations
- Real components and didactic benches.
- Hands-on in real conditions in a full equipped workshop

Skills assessment

- Validation by MCQ at the end of the training

Prerequisites

- Ability to read cutaway drawings and schematics
- Technician or engineer level with strong and fresh mechanical, hydraulic and electronic knowledge (on mobile application)

Trainee profile

- Technicians in charge of the maintenance of a hydrostatic transmission equipped with Poclair pumps

2 days
16 hours

Application / system customised training

In order to meet your expectations in the most appropriate way, we analyze your needs in order to best personalize our generic training on applications and systems

Personalized training allows you to improve your results of learning thus offering you a better return on your investment



Customizable trainings

- Assistance and anti-skid
- On-road assistance
- Twin-Lock™ principle
- Twin-Lock™ specificities
- CreepDrive™ motor and system
- Swing drive
- Open loop circuit specificities



Location

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