



TECHNICAL TRAINING CATALOG



Our technical training offer



LEVEL 1: GENERAL TRAININGS

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Understanding advanced hydraulic circuits	>	2.5 days / 20h	>	p. 7
MS motor offering	>	1.5 days / 12h	>	p. 8
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Electronic offering	>	0.5 days / 4h	>	p. 12
Hydraulic fluid contamination & filtration system	>	1 day / 8h	>	p. 13

LEVEL 2: APPLICATION & SYSTEM TRAININGS

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On-road assistance	>	0.5 days / 4h	>	p. 17
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LEVEL 3: CUSTOMIZED TRAININGS

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Application / System customised trainings	>	Duration to be determined	>	P.26

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



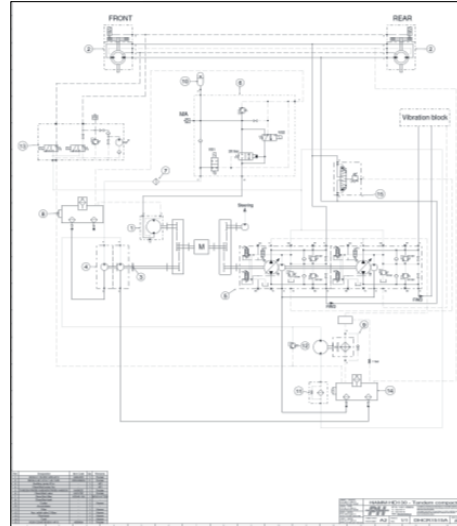
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GENERAL TRAININGS

Understanding hydraulic symbols and circuits

Program

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



Training goals

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

Prerequisites

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

Trainee profile

- Poclain Hydraulics' 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

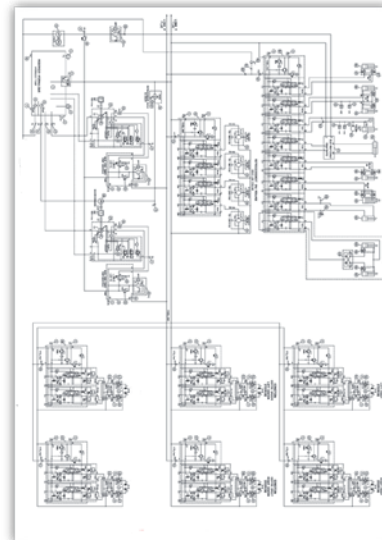
- Validation by MCQ at the end of the training



Understanding advanced hydraulic circuits

Program

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

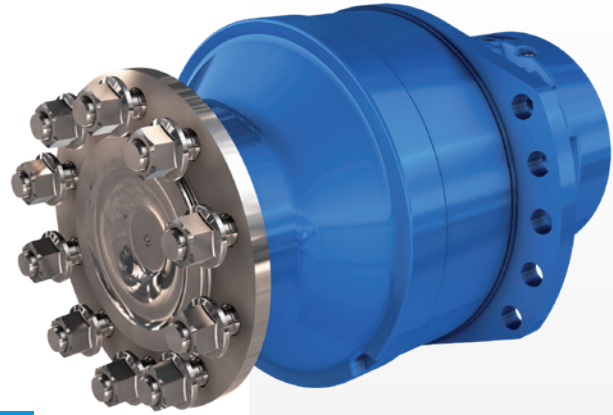
- Poclain Hydraulics' technicians or designers who need to analyze or design hydraulic schematics

2.5 days
20 hours

MS motor offering

Program

- Poclain Hydraulics radial piston motor principle and functioning
- Mounting recommendations



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 Hydraulics 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

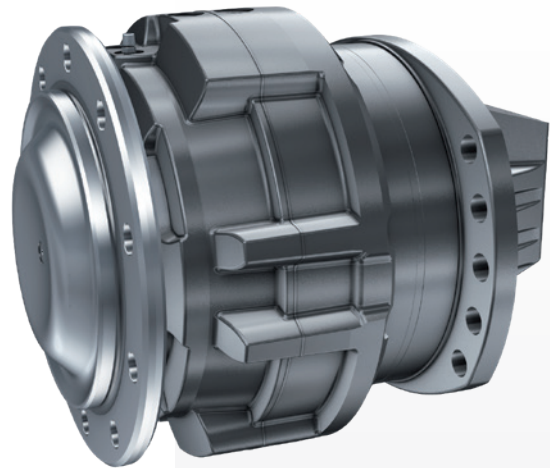
- Sales and application engineers
- Anybody who needs in-depth training on Poclain Hydraulics' core products and systems



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 Hydraulics 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 Poclain Hydraulics' core products and systems

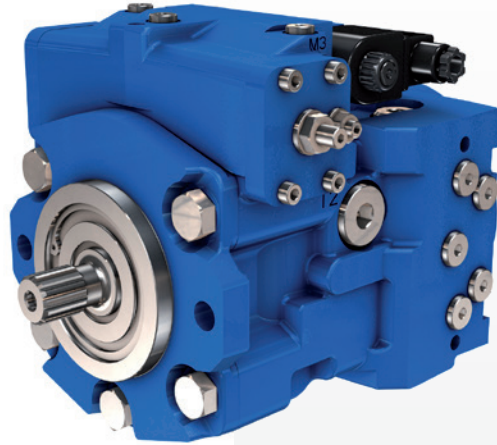
1 day
8 hours

Pump offering

Program

- Poclain Hydraulics pump offering
- Heavy duty open loop pumps
- Medium duty closed loop pumps
- Heavy duty closed loop pumps
- Controls and options
- Application examples

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 Poclain Hydraulics 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 Poclain Hydraulics' core products and systems

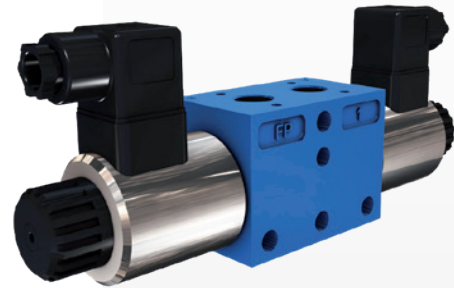


Valve offering

Program

- Valve ranges and catalogs
- Individual power transmission valves
- Open loop valves
- Brake valves
- Customized valves

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 Hydraulics 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

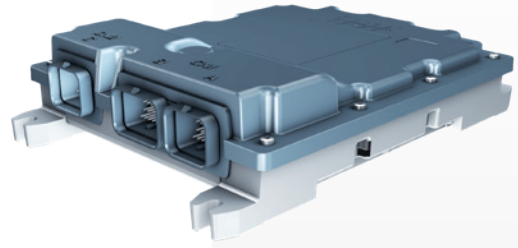
- Sales and application engineers
- Anybody who needs in-depth training on Poclain Hydraulics' core products and systems

1 day
8 hours

Electronic offering

Program

- Hydrostatic transmission management controllers
- Electronic input and output components
- Parameters and diagnostic software



Training goals

- ➔ Explain the different functions offered to safely manage a hydrostatic transmission
- ➔ Be able to codify the right product in Poclain Hydraulics electronic 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 Hydraulics' core products and systems



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

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

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

1 day
8 hours



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**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 Hydraulics 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 Hydraulics 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



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 Hydraulics' 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

- 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 Hydraulics' 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

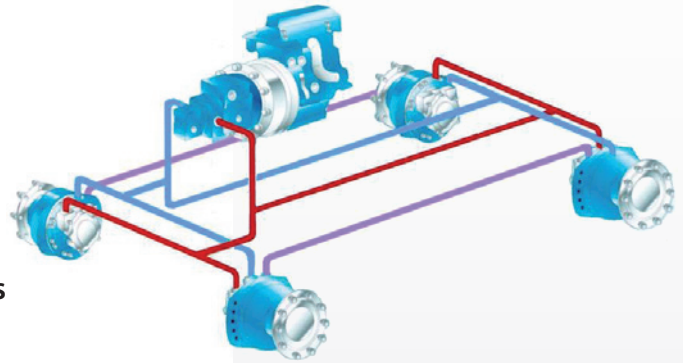
- Validation by MCQ at the end of the training



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 Hydraulics 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

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 Hydraulics' core products and systems

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 Poclain Hydraulics catalogs.
- ➔ Acquire the knowledge about the CreepDrive™ function & offer.

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 Hydraulics' core products and systems.

0.5 days
4 hours

Swing drive

Program

- Swing drive function
- System features
- Application examples



Training goals

- ➔ Visualize and understand the Poclain Hydraulics 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 Hydraulics' core products and systems.

0.5 days
4 hours

Open loop circuit specificities

Program

- Review of open loop circuit basics
- Load sensing and flow sharing
- Open loop circuit variable displacement pumps and controls
- MS motor in open loop circuit
-

Training goals

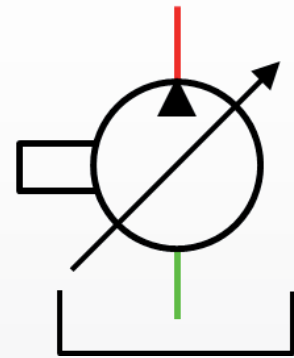
- ➔ Read and understand an open loop circuit application schematic
- ➔ Design Poclairn product integration in an open loop circuit

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 Hydraulics' core products and systems

1.5 days
12 hours

3

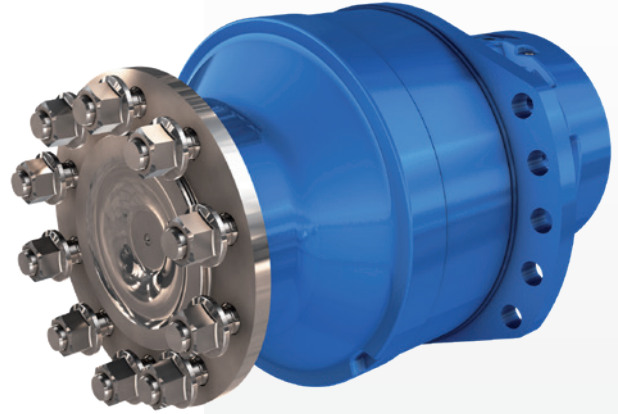
**CUSTOMIZED
TRAININGS**

MS motor 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 Hydraulics 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

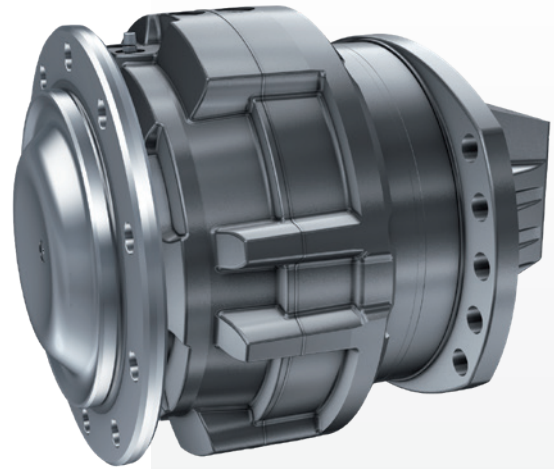
3 days
24 hours

MHP motor 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 Hydraulics motors

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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