

# MRSM

## Maintenance, Repair and Setup of Mobile Hydraulic Systems

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**Prerequisites:**

POH or equivalent training and knowledge

**Format:**

Approximately 50% lecture and 50% hands-on lab

**Tuition Includes:**

Seminar fee,  
 All student materials,  
 Text book,  
 Daily lunch & refreshments

**Who should attend?**

Advanced maintenance technicians and hydraulic project engineers learn to properly select hydraulic components that will produce efficient hydraulic circuits that properly control mobile equipment.

**This 5 day training course ...**

is a must for mobile hydraulic maintenance personnel in order to learn proper methods of maintenance and troubleshooting:

- Review of hydraulic principles as these principles relate to mobile hydraulics technology
- Hydraulic cylinders – operation and troubleshooting
- Understanding fixed displacement and variable displacement hydraulic motors
- Operation and setup of popular variable displacement hydraulic motor controls
- Pressure relief valves for system pressure control, port relief valves for cylinders and crossport relief valves for hydraulic motors – operation and setup
- Directional control valves – standard spool valves and mobile modular directional control valves – understanding the operation and the application of different types of spools
- Load sensing as separate control circuits and load compensation incorporated into mobile type directional control valves
- Load control and load holding techniques – operation and setup

- Understanding popular open loop pumps and closed loop pumps
- Displacement type pump controls – operation and setup
- Flow dividers
- Fluid conductors – types, sizing and selection – hose and pressure rated tube
- Fluid cleanliness and condition
- Filtration – tank breathers and fluid filters

**Note:**

This is a 2nd level mobile hydraulics training course developed for the mobile maintenance technician. This training course is a logical next-step seminar after either the POH seminar for your understanding of mobile equipment hydraulic systems. It is recommended for mobile maintenance personnel who have responsibility for the proper upkeep of mobile systems.

Students work in the classroom and in the lab to develop their hydraulic component and circuit understanding.