Wind Turbine Fundamental Hydraulics

This four and a half-day course emphasizes the fundamentals and principles of hydraulic systems used for wind turbine operation such as pitch control, yaw control, braking, and cooling/filtration systems. Focusing on component construction and operation, as well as on the role of the individual components in an operating hydraulic system, the student will come away with a solid foundation for future studies within the hydraulics industry.

Who Should Attend

This course is appropriate for sales and maintenance personnel who need to have a solid understanding of the operation of the hydraulics used in wind turbine operation. Almost half of all wind turbines installed today utilize hydraulics as a central element of control.

Topics Covered

- Hydraulic Principles and Fundamentals
- Graphic Symbology
- Hydraulic Fluids and Reservoirs
- Gear, Vane, and Piston Pumps
- Pressure Controls
- Directional Controls
- Flow Controls
- Cylinders
- Hydraulic Motors
- Contamination Control
- Electro-hydraulic Valves
- Screw-In Cartridge Valves
- Accumulators

Tuition

$1200

To register for a class or gain additional information please contact:

Eaton
Training Coordinator
Hydraulics Group
Training Services
1785 Indian Wood Circle
Maumee, OH 43537
Direct: 800-413-8809
Fax: 952-294-2080
www.eaton.com/hydraulics/training

Hydraulic Rotor: Brake Control

Supplied by power unit

KB OBE Proportional Valve

Filters and Breathers
High performance filtration

KB OBE Proportional Valve

MCD Control Manifold

Power Unit
“Turbine Duty” rated power unit

Cylinder
Pitch control cylinder with on-board electronics

Hydraulic Rotor: Brake Control
Supplied by power unit

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