

GWO BTT - Hydraulics

Duration	1 day
Target group	The Basic Technical Training modules are targeted at candidates who have no previous experience of hydraulic, mechanical, electrical or installation systems, but may also be used to upskill candidates who have some knowledge but not of its application in wind turbines.
Prerequisites	All personnel participating in Basic Technical Training shall be medically fit and capable of fully participating.
Objective	<p>The aim of this GWO BTT Standard Hydraulic Module is to give the participants the knowledge and skills to carry out basic tasks (supervised by an experienced technician). The module is designed so wind turbine technicians can:</p> <ol style="list-style-type: none"> 1. Explain the basics of hydraulics 2. Explain risks and hazards associated with hydraulic work 3. Explain the function of different types of pumps and demonstrate how to check start/stop pressure of a pump 4. Explain the function of different types of actuators. 5. Explain the function of different types of valves. 6. Explain the function of accumulators and demonstrate how to check and pre-charge them. 7. Explain the function of different types of sensors. 8. Identify the components which transfer the oil. 9. Describe the handling of oil procedures. 10. Identify and find different components on a hydraulic diagram. 11. Demonstrate how to measure the hydraulic pressure accurately.
Contents	<p>The GWO BTT Hydraulics module covers the following topics:</p> <ul style="list-style-type: none"> • Introduction • Hydraulic introduction • Hydraulic safety • Pumps, actuators, valves, accumulators, and sensors • Pipes, hoses, and connections • Oil and filters • Hydraulic diagrams • Pressure measuring tools
Exam	<p>The participants will be assessed separately on each module according to the learning objectives, by means of direct observation and supplementary oral questions where appropriate (formative evaluation).</p> <p>Furthermore, the participants will be subjected to a written phase test on each module according to the learning objectives (summative evaluation).</p> <p>Note: The Basic Technical Training is an enduring qualification, so a validity period does not apply to this training. This is based on the assumption that the participant is actively working in a wind turbine environment. If there is an extended period of absence from applying the skills, retraining and recertification may be required according to national legislation and</p>

company policy.