

GWO Basic Hydraulic Training

Duration	1 day
Target group	The Basic Hydraulic Training modules are targeted at candidates who have no previous experience of hydraulic systems but may also be used to up skill candidates who have some knowledge but not of their application in wind turbines.
Prerequisites	<p>All personnel participating in Basic Hydraulic Training shall be medically fit and capable of fully participating.</p> <p>Furthermore, Delegates shall have created a personal Delegate profile in WINDA and provide their own WINDA ID prior to completing the BTT training.</p> <p>Valid GWO WINDA ID: https://winda.globalwindsafety.org/</p> <p>There are no prerequisites for this module but some sort of practical mechanical or electrical maintenance background would be useful.</p> <p>Furthermore, personnel in the wind service industry must be able to read and write to a sufficient standard to be able to carry out instructions and complete the required documentation. It is an advantage if Delegates are able to read, speak and write English.</p>
Objective	<p>The aim of the BTT Hydraulic Module is to give the Delegates the knowledge and skills to carry out basic hydraulic tasks (supervised by an experienced technician), using safe working procedures and the correct PPE.</p> <p>The BTT Hydraulic Module shall ensure Delegates are able to:</p> <ul style="list-style-type: none"> • Explain the basics of hydraulics • Explain risks and hazards associated with hydraulic work • Explain the function of different types of pumps and demonstrate how to check start/stop pressure of a pump • Explain the function of different types of actuators • Explain the function of different types of valves • Explain the function of accumulators and demonstrate how to check and precharge them • Explain the function of different types of sensors • Identify the components which transfer the oil • Describe the handling of oil procedures • Identify and find different components on a hydraulic diagram • Demonstrate how to measure the hydraulic pressure accurately
Contents	<ol style="list-style-type: none"> 1.Introduction 2.Hydraulic Introduction 3.Hydraulic Safety 4.Pumps 5.Actuators 6.Valves 7.Accumulators 8.Sensors

9.Pipes, hoses and connections
10.Oil and filters
11.Hydraulic Diagrams
12.Pressure measuring tools
13.Summary and Theoretical Test
14.Evaluation

Exam

To successfully complete this BTT Module, Delegates shall be able to:

- Recall the objectives that have been covered within this module
- Pass the Theoretical test