

## GWO Basic Technical Training (BTT) Mechanical Module

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**Duration** 1 day

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**Target group** The Basic Technical Training modules are targeted at candidates who have no previous experience of hydraulic, mechanical or electrical systems but may also be used to up skill candidates who have some knowledge but not of their application in wind turbines

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**Prerequisites** Delegates shall have created a personal Delegate profile in WINDA and provide their own WINDA ID prior to completing the BTT training. Valid GWO WINDA ID: <https://winda.globalwindsafety.org/>

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**Objective** Having successfully complete this BTT Mechanical module, the participant will have the ability to:

- 1) Describe the main components, mechanical systems and basic operation of wind turbines
- 2) Discuss risks and hazards associated with mechanics
- 3) Explain the principles of bolted and welded connections and their inspection
- 4) Apply manual tightening and measuring tools
- 5) Recognise the principles of a gearbox
- 6) Recognise the function of the brake systems
- 7) Perform inspection of brake systems
- 8) Recognise the function of the yaw system and how to inspect it
- 9) Recognise the function of the cooling system
- 10) Perform inspection of the cooling system
- 11) Recognise the function of the lubrication system
- 12) Perform inspection of the lubrication system

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**Contents** BTT covers knowledge and skills to carry out basic mechanical, electrical and hydraulic tasks (supervised by an experienced technician), using safe working procedures and the correct PPE.

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**Exam**