

Module *BTTM* Mechanical

BTT Mechanical

BTTM (8 h 40 min)



Aim: The aim of this BTT Mechanical Module is to give the participants the knowledge and skills to carry out basic mechanical tasks (supervised by an experienced technician), using safe working procedures and the correct PPE.

PROGRAM: BTTM Basic Technical Training Mechanical

1. Introduction to the training
2. Mechanical introduction
 - 2.1 Main components of the structure
 - 2.2 Main mechanical systems
 - 2.3 How a turbine works
3. Mechanical safety
 - 3.1 Why mechanical safety
 - 3.2 Safety signs
 - 3.3 Types of PPE
 - 3.4 The importance of appropriate isolation
4. The principles of bolted and welded connections
 - 4.1 The principles of bolted connections
 - 4.2 The locations of important bolted and welded connections
 - 4.3 Inspection of welded connections
 - 4.4 Bolted connections and correct tightening tools
5. Use of manual tightening and measuring tools
 - 5.1 Metric system
 - 5.2 Selecting and using the correct manual tightening tools
 - 5.3 Correctly setting and using a torque wrench
 - 5.4 Feeler gauges
 - 5.5 Callipers
 - 5.6 Dial gauges
6. Gearbox
 - 6.1 Function and operating principles
 - 6.2 Inspection of the gearbox
7. Braking systems
 - 7.1 The function of the mechanical and the aerodynamic brakes
 - 7.2 Inspection of the mechanical brake system
8. Yaw system
 - 8.1 The function of the yaw system
 - 8.2 Inspection of the yaw system
9. Cooling system
 - 9.1 The function of the cooling system
 - 9.2 Inspection of the cooling system
10. Lubrication system
 - 10.1 Components requiring lubrication and why
 - 10.2 Inspection of lubrication systems
11. Summary and theoretical test
 - 11.1 Summary
 - 11.2 Theoretical test

12. Training review
 - 12.1 Training review
 - 12.2 Feedback session

BTTM Module (BTT Mechanical)

Duration: 8 h 40 min (1.5 days)

BTTM Program : Sections 1 to 12

Maximum students: 12 people per Edition.

Certificate validity:

Permanent (the company may require re-certification if no mechanical work is carried out for an extended period of time).

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