

Module **BTTB**

Bolt Tightening

BTT Bolt Tightening

BTTB (8 h)



Aim: The aim of this module is to prepare participants for company specific bolt tightening training, through scenario-based training.

PROGRAM: BTTB Basic Technical Training Bolt Tightening

1. Introduction
2. Bolt tightening in the wind industry
 - 2.1 Limitations of the training
 - 2.2 Recap of the BTT Mechanical
 - 2.3 Bolt tightening theory
 - 2.4 Quality assurance in bolt tightening
3. Framing the scenario: Bolt torquing using energy powered tools
 - 3.1 Introduction to bolt torquing in the wind industry using energy powered tools and accessories
 - 3.2 Attitude requirements for working with energy powered torquing tools and accessories
4. Pre-task phase: Planning and preparation
 - 4.1 Planning the task
 - 4.2 Preparing for the task
 - 4.3 Planning for safety
5. The task phase: Safely and correctly torque bolts using a combination of electrical and hydraulic tools
 - 5.1 Setting up equipment for use
 - 5.2 Bolt torquing
 - 5.3 Bolt loosening
 - 5.4 Safety, quality and trouble shooting
6. Post task phase: Pack up and review
 - 6.1 Post-use inspection and packing
 - 6.2 Post-job documentation
7. Framing the scenario: Bolt tensioning using energy powered tools
 - 7.1 Introduction to bolt tensioning in the wind industry using energy powered tools and accessories
 - 7.2 Attitude requirements for working with energy powered tensioning tools and accessories
8. Pre-task phase: Planning and preparation
 - 8.1 Planning the task
 - 8.2 Preparing for the task
 - 8.3 Planning for safety
9.
 - 9.1 Planning the task
 - 9.2 Planning the task
 - 9.3 Bolt loosening
 - 9.4 Safety, quality and trouble shooting
10. Post task phase: Pack up and review
 - 10.1 Post-use inspection and packing
 - 10.2 Post-job documentation
11. Using mechanical handling aids with bolt tightening tasks
 - 11.1 Mechanical handling aids typically used in the wind industry
 - 11.2 Using mechanical handling aids

- 11.3 Hazards associated with using mechanical handling aids
- 11.4 Mitigating hazards associated with mechanical handling aids
12. Training review

BTTB Module (BTT Bolt Tightening)

Duration: 8 hours (1 day)

BTTB Program : Sections 1 to 12

Maximum students: 12 people per Edition.

Prerequisites: BTTM

Certificate validity:

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

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