

# Module *SE* Elevator Safety Training

*Elevator Safety Training*  
(2 h)



## Objective

The use of elevators is very common in the wind industry as they are an essential tool to access different sections of wind turbines and perform work at height. However, the use of these devices also involves certain risks if proper safety procedures are not followed.

For this reason, the **Safety in Elevators course** addresses in detail the importance of following safety procedures before and after each use, as well as the dangers associated with their use and how to prevent them. In addition, the necessary knowledge and skills are provided to use an elevator in a wind turbine safely and effectively.

Participants will learn about the various guidance systems and types of elevators common in the wind sector, as well as the steps to follow in pre-use inspections and how to act in case of an emergency. Additionally, the importance of working as a team and communicating any issues or risky situations during the use of the elevator is emphasized.

## PROGRAM: Elevator Safety Training

1. Use of PPE for work at height and evacuation of elevators
2. Characteristics of the Wind Turbine Service Hoists, applicable to models of: Sirga, Fixed Guide and Rack Pinion
  - 2.1 General, and specifications of each type, Security System and characteristics and classification
  - 2.2 Common systems that make up the elevators
  - 2.3 Identification of risk and danger signs in elevators
3. Specific check and safety guidelines for each type and model of lift, checks prior to use:
  - 3.1 Visual inspection of the safety systems applicable to rack-and-pinion elevators (periodic review)
  - 3.2 General inspection: cabin, rock, obstacles, etc.
  - 3.3 Electromechanical closures (door switch ,1 hatch switch)
  - 3.4 Emergency stop (Internal and external Stop Button)
  - 3.5 Limits of the race, rack detector
  - 3.6 Gear Motor Safety Brakes
  - 3.7 Emergency lowering (check centrifugal brakes)
  - 3.8 Checking beta pins
  - 3.9 Contingencies and possible solutions
4. Visual inspection of the safety systems applicable to the Sirgas lifts (periodic review)
  - 4.1 Sirgas (periodic review)
  - 4.2 General inspection: doors, wire ropes, etc.
  - 4.3 Electromechanical closures (door 1' hatch switch)
  - 4.4 Emergency stop (Interior button and keypad)
  - 4.5 Electromagnetic Brake (Safety Stops)
  - 4.6 Manual and automatic use
  - 4.7 Limit switches ,1 emergency (Safety bars)
  - 4.8 Fall Arrest Device: ASL-OLS and BSO
  - 4.9 Peephole/Lock/Unlock
  - 4.10 Overspeed Test and Device Check
  - 4.11 Complementary tests: Stomp test and Handling test
  - 4.12 Manual emergency lowering
  - 4.13 Checking beta pins
  - 4.14 Contingencies and possible solutions
5. Who can do maintenance and repairs
6. Regulatory frame of reference
7. Safety procedures in case of breakdown or emergency.
  - 7.1 Differences between breakdown and emergency situations
  - 7.2 Potential breakdowns
  - 7.3 Classification of different emergency situations
    - 7.3.1 Emergency rescue
    - 7.3.2 Emergency evacuation
8. PPE to use and safety procedure in case of emergency
9. Adequate training for the following types of lifts:
  - 9.1 Avanti Mod.: Shark L02, SWP, Dolphin, Pegasus, Octopus
  - 9.2 Goian
  - 9.3 Jaso
  - 9.4 Hailo
  - 9.5 Wind Equipment
  - 9.6 Tractel, Mod. SL4-S, Omega

- 9.7 Power Climber Sherpa
- 9.8 Skyman
10. Conclusions, Evaluation and registration of the training

## Module SE (Elevator Safety Training)

**Duration:** 2 hours (1/2 day)

**Certificate validity:** 24 months

**Program:** Sections 1 to 10

**Maximum students:** 8 people x Ed.

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