

Training Course Outline

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| Course Name: | GWO Advanced Rescue (GWO-ART) |
| Training Duration: | 4 Days (Including Theory & Practical Training) |
| Training Time: | 08:30 – 16:30 |
| Delegate to Trainer Ratio: | Theory 12 Students to 1 Instructor & Practical 12 Students to 2 Instructors. |
| Certification: | Certificate to be issued by Global Wind Organisation (GWO). |
| Certification Validity Period: | Statement of Attainment valid for 2 years from date of issue. |
| Training Location: | 3M Safety Training Center Thailand /or Onsite. |

Overview:

The requirements for advanced rescue training courses that are provided by GWO. The full standard training comprises of four modules:

1. Hub, Spinner and Inside Blade Rescue (HSIBR)
2. Nacelle, Tower and Basement Rescue (NTBR)
3. Single Rescuer: Hub, Spinner and Inside Blade Rescue (SR:HSIBR)
4. Single Rescuer: Nacelle, Tower and Basement Rescue (SR:NTBR)

The aim of this Advanced Rescue Training Standard will enable participants to perform entry-type injured person rescue operations, in a WTG, using industry standard rescue equipment, rescue methods and techniques, exceeding those of GWO BST, Working at Height.

Upon completion of the Advance Rescue Training Standard, participants will be able to access and rescue an injured person from the hub and the nacelle, tower, and basement section of a wind turbine. These training modules can be delivered independently of one another or as stand-alone training.

Target Audience:

Personnel who will be working in the wind industry or related fields and will have their duties in a wind turbine environment.

Personnel that may need or is selected by their employer to perform advanced rescue or lead an advanced rescue operation, where training according to one or more modules of the GWO advanced rescue training may mitigate the identified risks.

Student Prerequisites:

Students should be physically fit and able to participate in moderately strenuous practical activities.

Students shall be following Drug / Alcohol Policy.

Students don't wear any short trouser and sandal to Training Center.

Student shall prepare and wear Safety Boots for Training.

Document Prerequisite for Training:

- Medical Checkup Document.
- Copy of ID. Card /or Passport.
- Personal WINDA ID.

GWO-ART-H Learning Objectives:

After having successfully completed this lesson, the participants can:

1. Understand and Apply best practices for emergency response plan in own organization and evacuation strategy.
2. Understand and Be able to identify the hazards and control measures to mitigate risk while rescue from height.
3. Understand and Be able to control the risk of using a cervical collar and head support during rescue.
4. Understand and Be able to perform packaging the injured person.
5. Understand and Be able to select and use rescue system for lowering & raising the injured person.
6. Understand and Be able to perform hub rescue process from blade and spinner.
7. Understand and Be able to perform outside evacuation of injured person.

GWO-ART-N Learning Objectives:

After having successfully completed this lesson, the participants can:

1. Understand and Apply best practices for emergency response plan in own organization and evacuation strategy.
2. Understand and Be able to identify the hazards and control measures to mitigate risk while rescue from height.
3. Understand and Be able to control the risk of using a cervical collar and head support during rescue.
4. Understand and Be able to perform packaging the injured person.
5. Understand and Be able to select and use rescue system for lowering & raising the injured person.
6. Understand and Be able to perform evacuation of an injured person from the nacelle to the base of the tower, inside and outside of tower.
7. Understand and Be able to perform rescue from enclosed space.
8. Understand and Be able to perform rescue from crawl space.
9. Understand and Be able to perform rescue up, inside and outside of tower.

GWO-SART-H Learning Objectives:

After having successfully completed this lesson, the participants can:

1. Understand and Apply best practices for single rescuer rescue strategy (organizational strategy, in own organization, singular rescuer and evacuation strategy, single rescuer).
2. Understand and Be able to identify the hazards and control measures to mitigate risk while rescue from height.
3. Understand and Be able to perform evacuation of an injured person from the nacelle to the base of the tower.
4. Understand and Be able to perform hub rescue process from blade and spinner.

GWO-SART-N Learning Objectives:

After having successfully completed this lesson, the participants can:

1. Understand and Apply best practices for single rescuer rescue strategy (organizational strategy, in own organization, singular rescuer and evacuation strategy, single rescuer).
2. Understand and Be able to identify the hazards and control measures to mitigate risk while rescue from height.
3. Understand and Be able to perform evacuation of an injured person from the nacelle to the base of the tower, inside of tower.
4. Understand and Be able to perform rescue from enclosed space.
5. Understand and Be able to perform rescue from crawl space.
6. Understand and Be able to perform rescue up, inside of tower.

Note #1: This cost is included as the following items below, when conduct training at **3M Safety Training Center Thailand:**

- Basic Personal Protective Equipment (PPE) for the Number of Student in Class will be supported during Practical Training such as Safety Helmet, Safety Glasses, Coverall and Gloves.
- Meal Provided with Lunch and 2 Coffee breaks per Day.
- All Training Material & Equipment are used for theory and practical activity.

Note #2: Customer shall provide equipment & material as detail in the listed below for **The Onsite Training:**

- Training Classroom for Number of Students, Projector & Screen.
- Whiteboard or Flipchart and Pens.
- Structure for practical activity.
- Fall Arrest System Equipment (Full Body Harness & Twin Lanyard) for Number of Student in Class and any training equipment are concerned as Training Provider's information.
- Basic Personal Protective Equipment (PPE) for Number of Student in Class will be supported during Practical Training such as Safety Helmet, Safety Glasses, Coverall and Gloves.
- Meal Provided with Lunch and 2 Coffee breaks per Day.