

ABOUT US

Founded in 2014, we specialise in providing a full range of GWO training courses for individuals specialising in, or looking to work in, wind turbine maintenance and installation, as well as organisations looking for a reputable training provider.

From our sites in Sunderland UK and Grand Prairie Texas, we teach those in the wind turbine industry core skills needed to start safely and carry out their roles effectively.













PACKAGES

Blade Tech Package Includes:

- GWO Blade Repair
- GWO Basic Safety
 Training GWO
 Working at Height,
 GWO Manual
 Handling, GWO Fire
 Awareness, GWO
 First Aid, GWO Sea
 Survival
- IRATA Rope Access
- OGUK offshore Medical and Chester Step

Duration: 20 Days Price: £3,000 (inc VAT)

Blade Tech Plus Includes:

- GWO Blade Repair
- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- IRATA Rope Access
- GWO Slinger Signaller
- OGUK offshore Medical and Chester Step

Duration: 22 Days Price: £3,599 (inc VAT)

Blade Tech Enhanced Includes:

- GWO Blade Repair
- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- IRATA Rope Access
- GWO Enhanced First Aid
- GWO Advanced Rescue Training
- OGUK offshore Medical and Chester Step

Duration: 26 Days Price: £4,199 (inc VAT)

Blade Tech Premium Includes:

- GWO Blade Repair
- GWO Basic Safety Training - GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- IRATA Rope Access
- GWO Slinger Signaller
- GWO Enhanced First Aid
- GWO Advanced Rescue Training
- OGUK offshore Medical and Chester Step

Duration: 28 Days Price: £4,799 (inc VAT)

Service tech package Includes:

- GWO Basic Safety
 Training GWO
 Working at Height,
 GWO Manual
 Handling, GWO Fire
 Awareness, GWO First
 Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- OGUK offshore Medical and Chester Step

Duration: 9 Days Price: £2,899 (inc VAT)

Service Tech Plus Includes:

- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- GWO Slinger Signaller
- OGUK offshore Medical and Chester Step

Duration: 11 Days Price: £3,499 (inc VAT)

Service Tech Enhanced Includes:

- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- GWO Advanced Rescue Training
- GWO Enhanced First
 Aid
- OGUK offshore Medical and Chester Step

Duration: 15 Days Price: £4,099 (inc VAT)

Service Tech Premium Includes:

- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- GWO Slinger Signaller
- GWO Advanced Rescue Training
- GWO Enhanced First Aid
- OGUK offshore Medical and Chester Step

Duration: 17 Days Price: £4,699 (inc VAT)

PACKAGES

Wind Tech Package Includes:

- GWO Blade Repair
- GWO Basic Safety
- Training GWO
 Working at Height,
 GWO Manual
 Handling, GWO Fire
 Awareness, GWO
 First Aid, GWO Sea
 Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- IRATA Rope Access
- OGUK offshore Medical and Chester Step

Duration: 24 Days Price: £4,499 (inc VAT)

Wind Tech Plus Includes:

- GWO Blade Repair
- GWO Basic Safety
- Training GWO
 Working at Height,
 GWO Manual
 Handling, GWO Fire
 Awareness, GWO
 First Aid, GWO Sea
 Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- IRATA Rope Access
- GWO Slinger Signaller
- OGUK offshore Medical and Chester Step

Duration: 26 Days Price: £5,199 (inc VAT)

Wind Tech Enhanced Includes:

- GWO Blade Repair
- GWO Basic Safety Training –
- GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- IRATA Rope Access
- GWO Enhanced First Aid
- GWO Advanced Rescue
- Training
- OGUK offshore Medical and Chester Step

Duration: 30 Days Price: £5,699 (inc VAT)

Wind tech premium Includes:

- GWO Blade Repair
- GWO Basic Safety Training – GWO Working at Height, GWO Manual Handling, GWO Fire Awareness, GWO First Aid, GWO Sea Survival
- GWO Basic Technical Training – Electrical, Mechanical and Hydraulics.
- IRATA Rope Access
- GWO Slinger Signaller
- GWO Enhanced First Aid
- GWO Advanced Rescue Training
- OGUK offshore Medical and Chester Step

Duration: 32 Days Price: £6,399 (inc VAT)

GWO Basic Safety Training (BST) Includes:

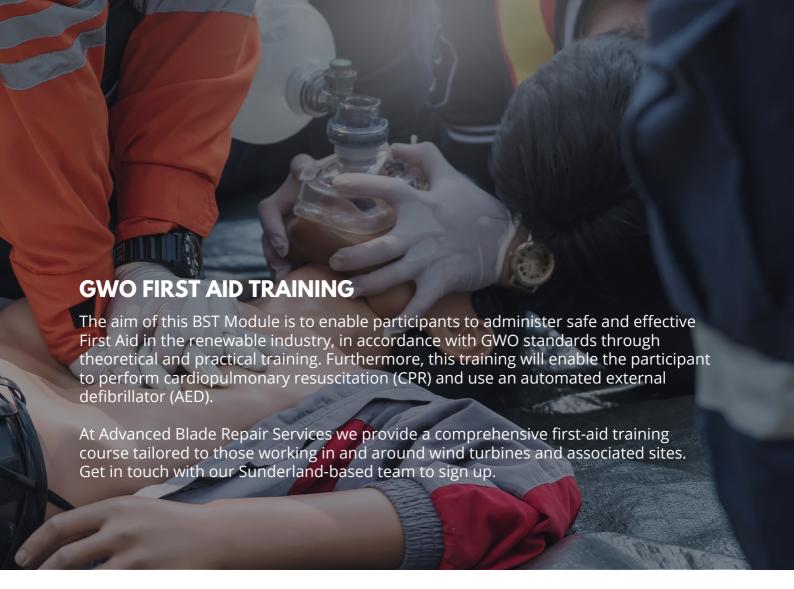
- GWO Working at Height
- GWO Manual Handling
- GWO Sea Survival
- GWO First Aid
- GWO Fire Awareness

Duration: 5 Days (Refresher 3 Days) Price: Basic: £1,150 (inc VAT) Refresher: £840 (inc VAT) GWO Blade Repair & Basic Safety Training (BST) Includes:

- GWO Blade Repair
- GWO Working at Height
- GWO Manual Handling
- GWO Sea Survival
- GWO First Aid
- GWO Fire Awareness

Duration: 15 Days Price: £2,700 (inc VAT)





Prices: Initial - £270 (Incl. VAT)
Refresher - £160 (Incl. VAT)
Duration: Initial - 1 day
Refresher - 0.5 days
Location: Sunderland.





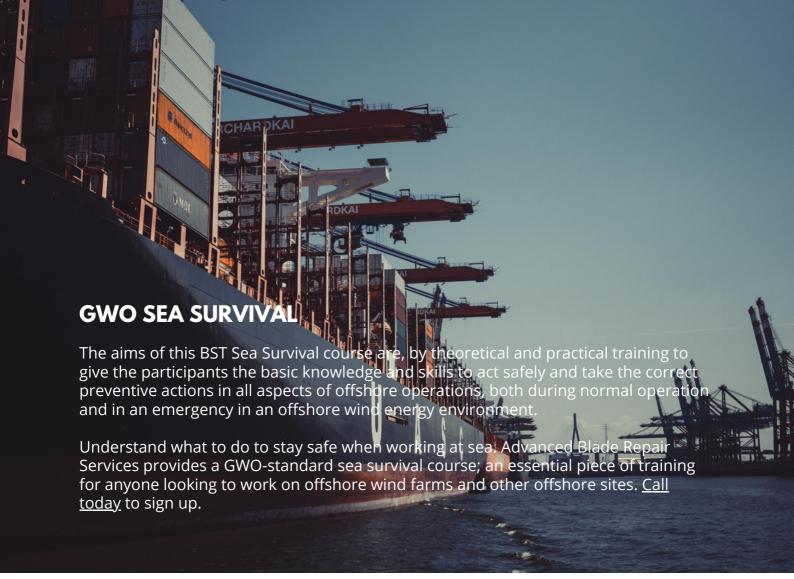


Attendees completing the course will be able to:

- · Demonstrate an understanding of the importance of first aid
- · How to carry out first aid safely in accordance with ERC and local guidelines
- Show an understanding of the guidelines set out by the AHA
- Understand and explain normal functions, the signs of symptoms of minor/major injury and illness, and appropriate first aid
- Demonstrate an understanding of how to safely apply techniques within a wind turbine environment

There are three key modules on this course:

- · Your responsibility as a first aider
- Managing minor and serious incidents
- · Example scenarios and exercises



PRICE: £420 (Incl. VAT)
Duration – 1 day.
Location: Sunderland.







The goal of this course is to teach essential skills which may become life-saving when working at sea. By the end of the course, successful participants will be able to:

- Describe and demonstrate a range of sea survival techniques
- Understand how to safely transfer from onshore to offshore and vice versa
- Know how to use rescue/survival aids and equipment at sea

The GWO Sea Survival course covers a range of topics, including:

- Surviving at sea
- · How to use life-saving equipment
- · National and international legislation for working at sea
- Man overboard techniques
- How to operate life rafts
- Understanding hypothermia
- The safe transfer of personnel and their equipment to wind turbine generators and vessels



Ensure you know how to prevent fires, and what to do when there is a fire. Advanced Blade Repair Services teaches a full GWO Fire Awareness course at our site in Sunderland, to equip you with all the essential fire safety skills when working on wind farms and other renewables sites.

The goal of this course is to give the participants essential knowledge and skills to help prevent fires, make appropriate judgements when there is a fire, manage an evacuation of personnel and ensure the safety of all on-site. For smaller fires or ones that can be safely handled by the participants, we teach appropriate fire-fighting skills and the correct use of equipment.

Price: £138 (Incl. VAT)
Duration – 0.5 day.
Location: Sunderland.







The aim of this module is to ensure participants can:

- Identify the warning signs of a fire in progress.
- · Understand and follow fire evacuation procedures
- Understand contingency plans in relation to wind turbine fires
- · Identify what could cause a fire in a wind turbine
- Demonstrate safe use of personal fire-fighting equipment

The GWO Fire Awareness course includes five key sections:

- · How fires develop and spread
- Potential causes and risks of fires in wind turbines
- Identifying the signs of fire
- Smoke detection and emergency escape procedures
- · How to use personal fire-fighting equipment



Over the course, you will learn how to manufacture a selection of wind turbine blades. You will be able to competently complete processes identical to those used in factories specialising in blade production around the world. You will see the effects of common damage caused by weather erosion, stress and flex of the blade, delamination, lightning strikes and much more.

Price: £1,642 (Incl. VAT)
Duration – 10 days.
Location: Sunderland.

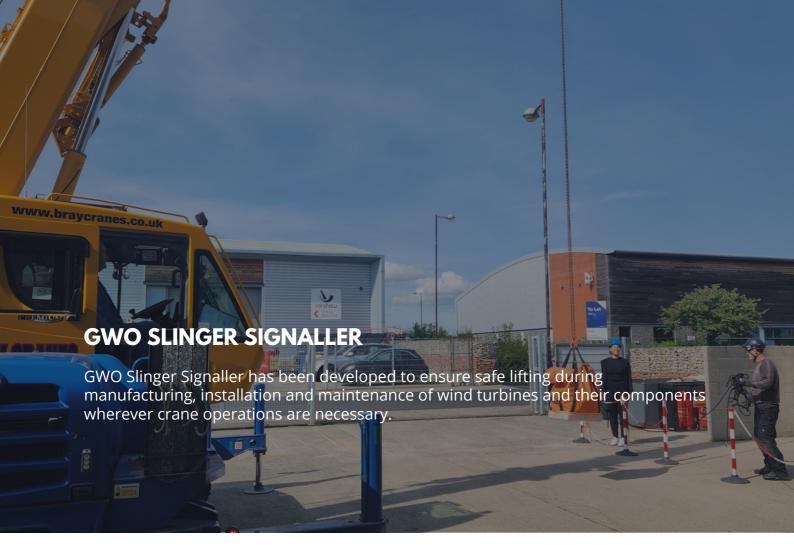






You will also learn how to identify, inspect and repair these issues to restore the blade to full efficiency. You will be able to have comprehensive chemical awareness and understand how to use industry inspecting devices, complete environmental condition reporting and use inspection reporting systems. This course is recognised by Siemens Gamesa.

- · Carry out industry-standard wind turbine blade repairs
- Explain the composition of blades and the importance of the surface finish, in relation to turbine performance and efficiency
- · Demonstrate the ability to work with required chemicals and associated PPE
- In relation to repairs and maintenance, understand the differences and safe usage of epoxy, polyester, vinyl ester, methacrylate, reinforcement materials and solvents.



Price: £640.00 (Incl. VAT)

Duration – 2 days.

Location: Sunderland.





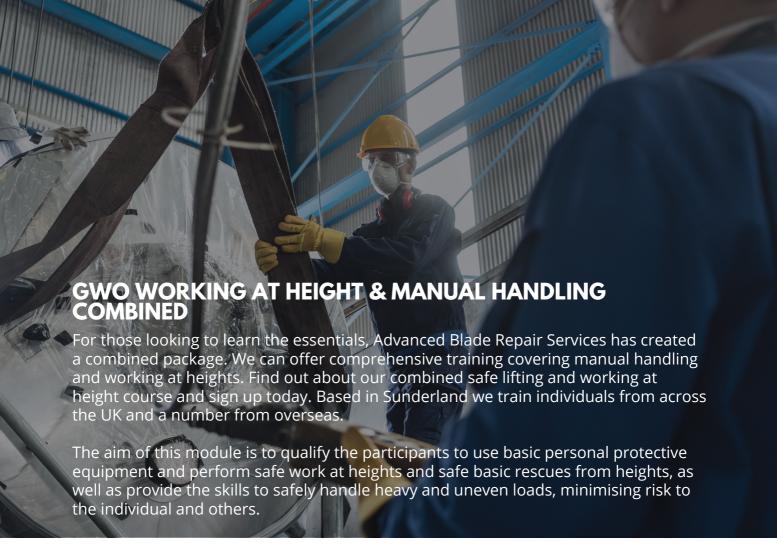


Participants will be equipped with the required knowledge and skills to conduct assigned slinger signaller tasks safely and efficiently.

The course includes conducting slinging techniques and signalling during simple lifting operations. All operations covered are based on a lifting plan covering known hazards.

Participants completing a GWO Slinger Signaller training course will be able to;

- · Attach and detach a load to and from a crane
- Initiate and direct the safe movement of a crane, during limited or blind lifts
- Adhere to a slinger signaller's role and responsibilities during a lift
- Conduct visual pre and post-inspection of lifting accessories and load
- Handle lifting accessories
- Ensure safe lift-off and lay down of a load
- Sling various types of load based on weight, centre of gravity, shape and size
- Carry out generic routine lifts in accordance with a lift plan
- Comply with instructions/procedures set up by an employer to manage lifting
- · Ensure equipment is properly used, maintained and defects reported



Price Basic: £580. (Incl. VAT)
Duration: 2 days
Refresher: £304.80 (Incl. VAT)
Duration - 1 day.
Location: Sunderland.







This course combines the aspects of both the <u>GWO Working at Height</u> and the <u>GWO Manual Handling</u> courses. Please review these sections for further information.

Advanced Blade Repair Services will ensure successful participants fully understand the skills needed for working at height, including:

- How to use personal fall protection equipment (PFPE) and other essential PPE
- · Behaviours and actions to adhere to when working at height
- How to carry out a simple rescue, according to/GWO Working at Height standards.

This GWO course contains a number of key sections:

- · National legislation regarding working at heights
- How to self-rescue at height
- Suspension intolerance, cause, effects and treatment
- · How to evacuate in an emergency at height
- Types of rescue situations in and around wind turbines

It also includes a mix of in-class theory and practical sessions. By the end of the course, successful participants will be able to:

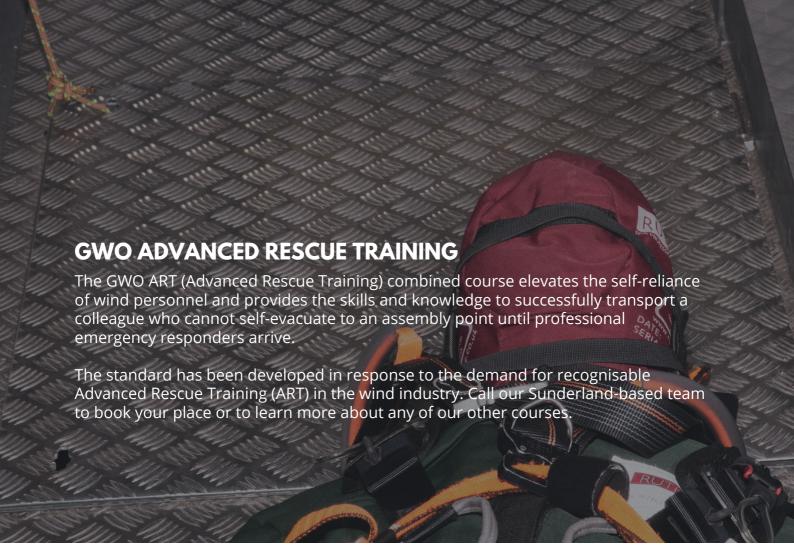
- Understand the risks of not carrying out manual handling tasks effectively
- Understand the alternatives to manual handling where present
- Demonstrate safe manual handling techniques

The course covers seven aspects of manual handling:

- Incident and injury reporting
- What is manual handling is and when it is needed?
- Spinal and shoulder anatomy and possible injuries from manual handling
- Equipment pre and post-use checks and certification
- Risk assessments and control measures
- Planning your operations
- Safe lifting techniques







Price: Initial - £750 (Incl. VAT) Refresher - £750 (Incl. VAT) Duration - 3 days. Location: Sunderland.







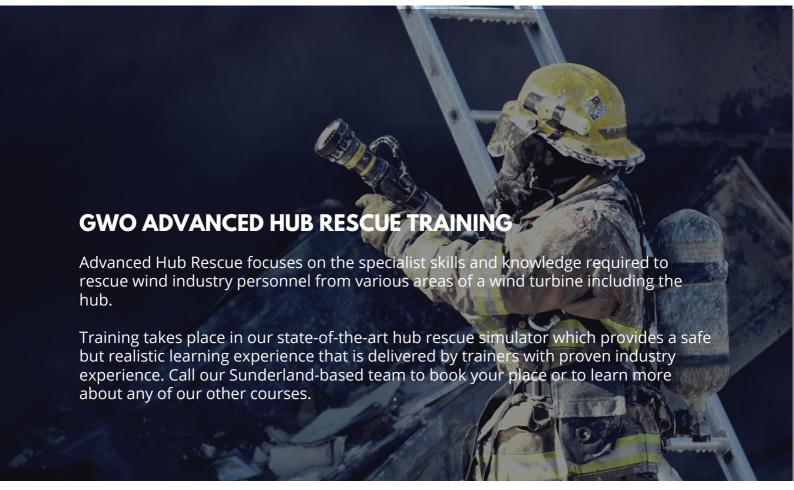
The training is based on risk assessments and factual incident and accident statistics pertaining to the installation, service and maintenance of wind turbine generators and wind power plants.

GWO ART aims to control the risks associated with rescue operations conducted in and from wind turbines to ensure more efficiency in the industry.

This is the combined GWO ART which includes all four modules covering rescue and single rescuer in the hub, spinner, inside blade, nacelle, tower and basement sections of a wind turbine.

Participants completing a GWO ART -Advanced Rescue Training combined course will be able to:

- Safely access the hub, spinner, inside blade, nacelle, tower and basement section of a wind turbine to get to an injured person
- Perform entry-type casualty rescue operations in a wind turbine generator
- Correctly use industry-standard rescue equipment and methods
- Understand and demonstrate rescue techniques that exceed those of GWO Working at Height
- Hub, spinner and inside blade rescue (HSIBR)
- Nacelle, tower and basement rescue (NTBR)
- Single rescuer: hub, spinner and inside blade rescue (SR:HSIBR)
- Single rescuer: nacelle, tower and basement rescue (SR:NTBR)



Price: £300 (Incl. VAT)
Duration - 1 day.
Location: Sunderland.



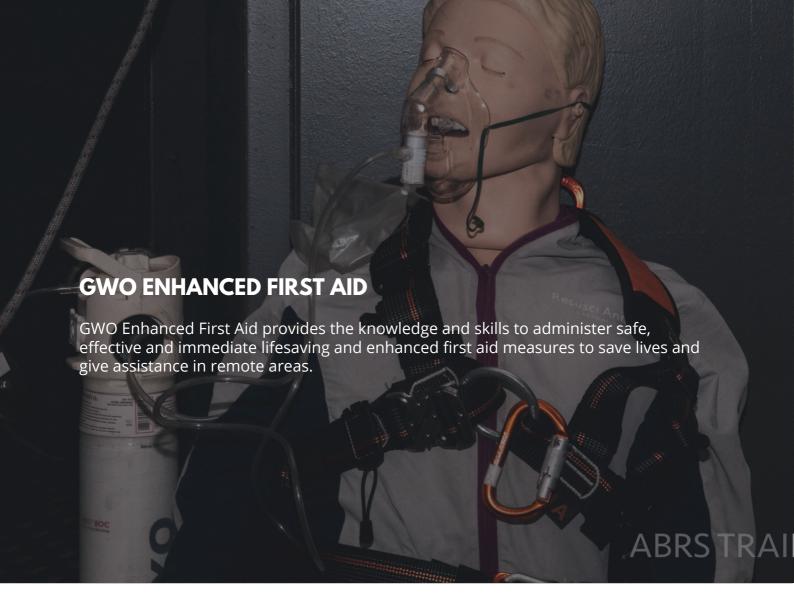




Participants will learn to work in a safe, effective and prompt manner to stabilise a casualty.

Participants completing an Advanced Hub Rescue (AHR) training course will be able to:

- Understand current national legislation
- Demonstrate user inspections of PFPE
- Remaining calm and keeping oneself safe at all times
- Instigate emergency procedures
- Demonstrate the rescue of a casualty from a restricted environment
- Casualty handling and management
- An Advanced Hub Rescue (AHR) training course includes:
- The hazards and risks associated with working inside a hub and nacelle
- Current industry-specific legislation and its application/relevance in the wind and renewables industry
- Personal protective equipment (PPE) identification and inspection for hub-specific rescue kits
- The use of relevant casualty evacuation kits incorporating items such as e.g. longboard, 3/4 stretcher, Chrysalis stretcher, and X-it harness.
- Correct identification of hub-specific anchor and structural points
- Safe evacuation and use of evacuation devices
- Practical demonstrations and exercises involving various rescue and emergency situations that may arise within sections of the nacelle
- Correct selection of equipment and subsequent evacuation of self and a casualty whilst following emergency procedures



EFA Course - Duration: 3 days Price Initial: £570 (Incl. VAT) EFA Refresher Course Duration: 2 days Price Refresher: £400(Incl. VAT)

Location: Sunderland.





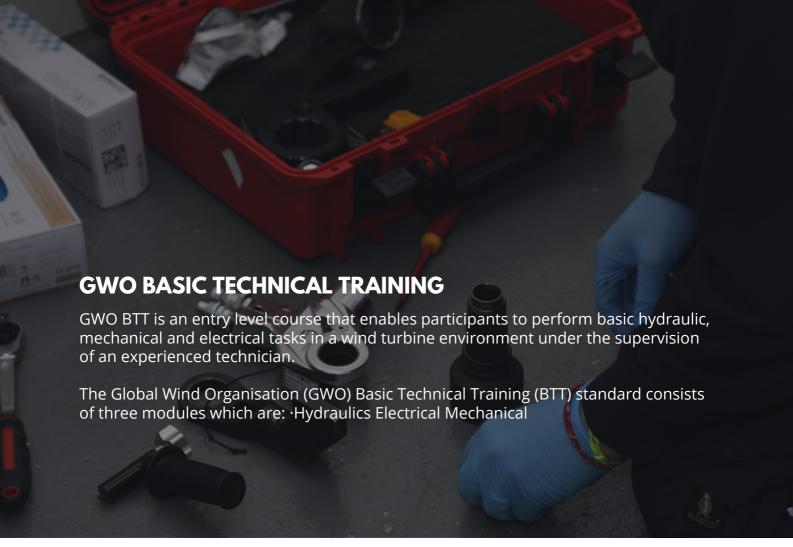
Participants will learn to use advanced emergency equipment and medical telecommunication to provide ongoing care to an ill or injured casualty over a period of time while waiting for professional emergency rescue teams to arrive.

Participants completing a GWO Enhanced First Aid training course will be able to:

- Understand the importance of carrying out basic and enhanced first aid in a safe and sound manner, in accordance with local legislation and according to European Resuscitation Council (ERC) and American Heart Association (AHA) guidelines
- Administer safe, effective and immediate lifesaving and enhanced first aid measures to save lives and give assistance in remote areas using advanced emergency equipment and medical teleconsultation, while having particular regard for personal protection

- Identify and explain normal function, normal signs and symptoms of serious and minor injuries and illnesses related to the human body
- Demonstrate understanding and correct order of management in an emergency situation in a Wind Turbine Generator (WTG) environment
- Deliver immediate enhanced first aid to stabilise a casualty
- Assess the casualty for injury or acute illness and determine if medical advice and external-to-incident support is required
- Request telemedical consultation and medical/rescue assistance by providing a concise and relevant report of the casualty's condition while receiving medical advice to stabilise the casualty
- Request immediate medical/rescue assistance providing a concise and relevant report of the casualty's condition
- Prepare the casualty for transfer to the nominated evacuation/rescue point
- Act as a leader in first aid situations.





Price: £1600 (Incl. VAT)

Duration – 4 days

Location: Sunderland.







Electrical

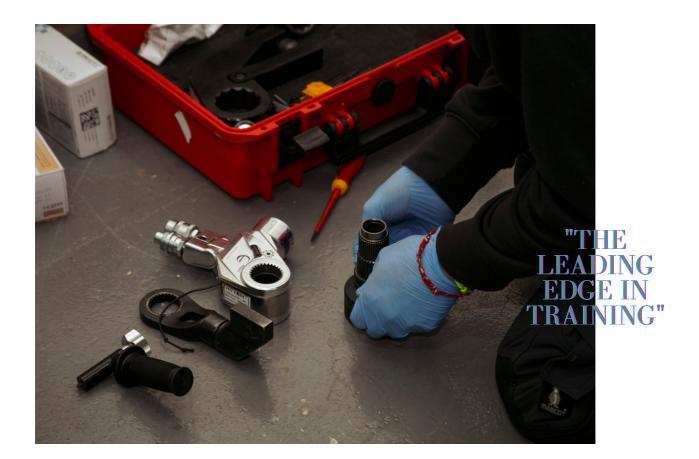
- Explain the basics of electricity.
- Explain risks and hazards. associated with electrical.
- Explain the function and symbol of electrical components.
- Explain the function of different types of sensors.
- Explain and interpret a simple electrical diagram and demonstrate how to assemble it on a circuit.
- Demonstrate how to make safe measurements.

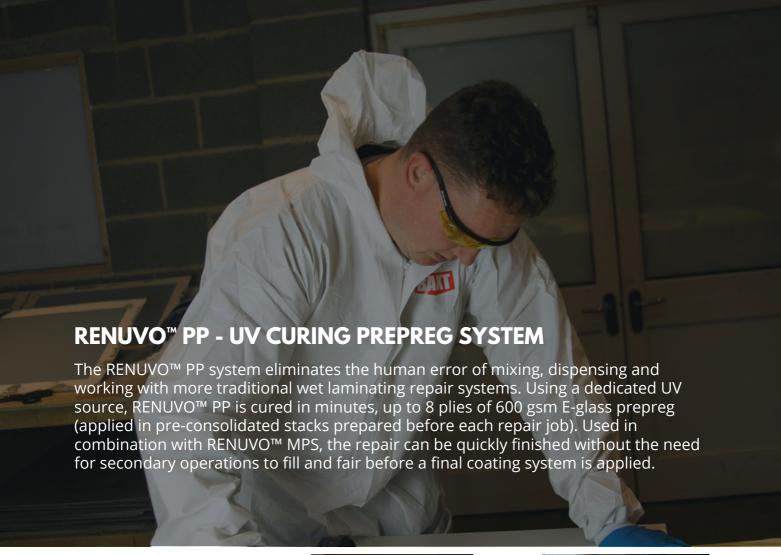
Hydraulics

- Explain the basics of hydraulics.
- Explain risks and hazards associated with hydraulic work.
- Explain the function of different types of pumps and demonstrate how to check the start/stop pressure of a pump
- Explain the function of different types of actuators.
- Explain the function of different types of valves.
- Explain the function of accumulators and demonstrate how to check and pre-charge them.
- Explain the function of different types of sensors
- Identify the components which transfer the oil.
- · Describe the handling of oil procedures
- Identify and find different components on a hydraulic diagram.
- Demonstrate how to measure the hydraulic pressure accurately.

Mechanical

- Explain the main components, mechanical systems and the basic operation of wind turbines.
- Explain risks and hazards associated with mechanics.
- Understand the principles of bolted and welded connections and their inspection.
- Demonstrate practical skills to use manual tightening and measuring tools.
- Demonstrate the correct use of hydraulic torque and tensioning tools.
- Explain the principles of a gearbox
- Explain the function of the brake systems and demonstrate how to inspect them.
- Explain the function of the yaw system and explain how to inspect it
- Explain the function of the cooling system and demonstrate how to inspect it.
- Explain the function of the lubrication system and demonstrate how to inspect it.





Price: £599 (Incl. VAT)
Duration – 2 days
Location: Sunderland.







In partnership with GURIT an in-depth course which walks the technicians through successfully applying and curing Renuvo UV systems. Over the 2 days, the participants will complete 5 practical tasks.

- Prepreg stacks of up to 6 layers (customised for individual repairs) are possible in one laminating operation
- Material can be used between +5°C to +30°C (+41°F to +86°F)
- Clean processing, avoiding mixing and contamination risks
- Long out-life at room temperature (protected by UV-blocking film)
- Excellent mechanical properties
- Compatible with current topcoat solutions
- Approved for primary structural repairs at major OEMs

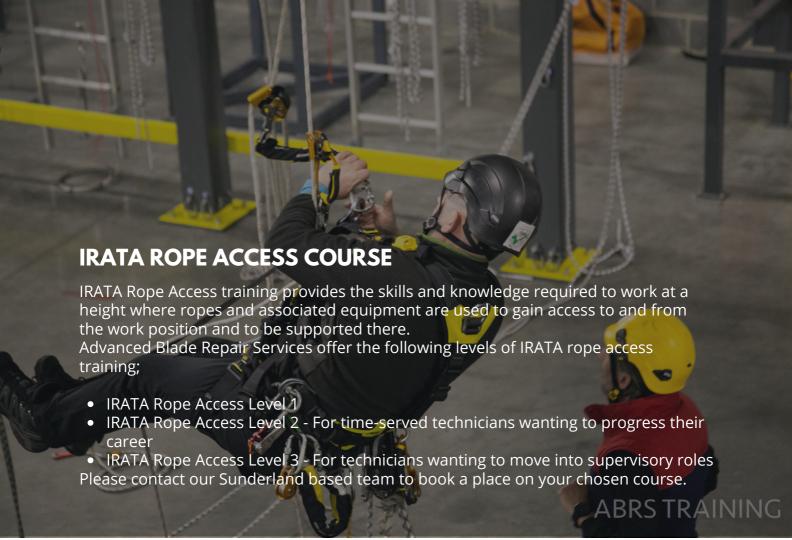
RENUVO[™] Prepreg (PP) is used in combination with <u>RENUVO[™] Multi-Purpose System (MPS)</u> for secondary structural repairs and MMA adhesive for primary structural repairs.

RENUVO™ PP offers a step change in materials for the wind turbine blade repair market. Cure time in minutes by using bespoke UV lamps (with no need to apply heat for complete cure) thus efficiently saving up tower time and an expanded repair weather window. RENUVO™ prepregs are available in unidirectional (600 gsm UD) and biaxial (600 gsm XE) formats allowing to customise repair patches/stacks as relevant to comply to blade specification.

The participants would be taken through a 3-layer repair training, Including;

- Gelcoat repair using MPS paste
- Repair of trailing edge damage,
- Repair of leading edge damage and repair to the pressure/suction side of the blade





IRATA Rope Access Training Level 1, 2 & 3

Duration: 5 days (4 days training
1 day assessment)

Price: £695 inc. VAT
Location: Sunderland.





Rope access techniques are used in a wide range of repair, maintenance and inspection roles in industries including offshore oil and gas, renewable energy, confined spaces, power and petrochemical, shipping and harbours.

An IRATA Rope Access Level 1 technician is capable of performing a limited range of rope access tasks. Participants completing a Level 1 IRATA Rope Access training course will be able to:

- Inspect their own personal rope
- Correctly use access equipment
- · Assist in a rig and non-standard operations under the guidance of a higher graduate
- · Undertake a rescue involving descent by themselves and have knowledge of hauling systems

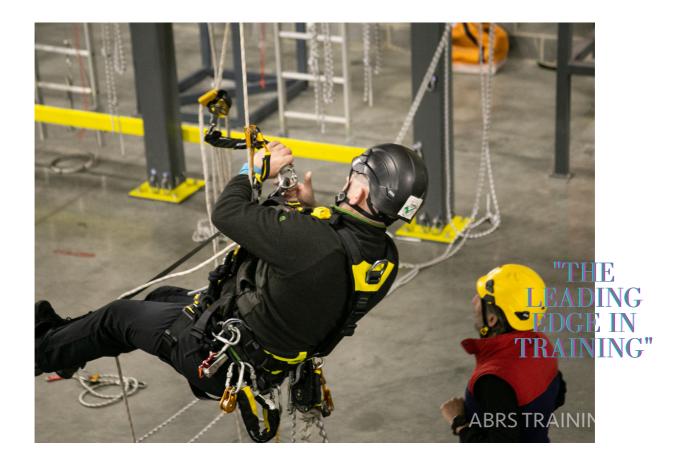


IRATA ROPE ACCESS TRAINING - LEVEL 2

- An intermediate-level training course for those wanting to progress their career in rope access.
- An IRATA Level 2 technician is capable of rigging working ropes, undertaking rescues and performing a variety of rope access tasks.

IRATA ROPE ACCESS TRAINING - LEVEL 3

- A supervisory-level training course for those wanting to progress to a rope access supervisor.
- An IRATA Level 3 supervisor is capable of site supervision for rope access work projects.





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ADVANCED BLADE

