



Competent Rotorblade Technician



MAERSK
TRAINING



"It is clear in the wind industry that blades are a key component where ongoing maintenance and repair are essential to ensuring turbine efficiency and performance. As the number of machines installed has increased, we've seen a delay in the growth of the maintenance and repair workforce, which is now recognised in the industry as a serious pinch point. Maersk Training are bringing together an incredible track record in training with a new facility purposely established to give specific training in wind composites, rotorblade technology as well as inspection, assessment and repair methods.

As the industry has developed, there are some specific training certificates which have become the "norm" for blade repair. These are typically driven by a single blade manufacturer and whilst providing information specific to their technology, tend not to bring in an "overall" knowledge of different blade types, manufacturing techniques and formats. The Maersk Training Competent Rotorblade Technician course is configured to give knowledge in multiple blade types, multiple technologies and materials to give the graduates the opportunity to move into the sector in multiple roles and disciplines across a number of potential employers. The course includes processing and repair with both styrene-based and Epoxy resin systems, and incorporates processing methods including wet lamination and resin infusion."

Andrew Bellamy, Director at 8.2 Aarufield

Maersk Training roll out new Competent Rotorblade Technician course to increase the number of skilled technicians around the world.

INTRODUCTION

Developed with support from wind industry technical experts 8.2 Aarufield, Maersk Training has launched a ground breaking new training course designed specifically at supporting the creation of a global workforce of Competent Rotorblade Technicians.

The first of its type to be offered in the UK, the ten day Competent Rotorblade Technician course is intended to help greatly increase the number of skilled technicians around the world who can competently inspect, assess and repair wind turbine rotorblades which in turn supports the ongoing drive to achieve wind energy cost reductions through energy yield improvements.

PREPARES DELEGATES FOR WORKING IN THE FIELD

Using inputs from multiple wind turbine blade types, manufacturing technologies and the principles of

industry standard DNVGL-ST-0376 (Rotor Blades for Wind Turbines) as a baseline for the repair techniques taught, the Competent Rotorblade Technician course prepares aspiring rotorblade technicians for work in the field to a far higher standard than was previously possible by the available awareness or basic level courses.

The ten day course is an intensive and hands on programme, aimed at taking an individual with no prior experience of wind turbine rotorblades, up to the level at which they will be a competent entry level rotorblade technician able to work alongside and support an experienced technician to a high standard of quality and safety. The course includes sessions in state of the art, purpose built facilities including a wind composites and coatings training lab, a rotorblade repair workshop with numerous blade sections and

suspended blades where delegates can experience the challenges of rope access and learn in a controlled environment how to apply inspection and repair skills using this access technique.

GLOBALLY UNIQUE CAREER TRANSITION SOLUTION

Maersk Training offer the Competent Rotorblade Technician course as a standalone ten day programme or, for individuals from outside of the sector wishing to build a new career, it can form part of a bundled career transition solution, integrated with the GWO Basic Safety Training, IRATA Level 1 (rope access technician), Confined Space training, Slinger Banksman, and an Offshore Medical, alongside comprehensive information, advice and guidance (IAG) sessions including market mapping, personal brand building and employer introductions.



“As a former member of Renewable UK’s RTN training review panel, Maersk Training was heavily involved in development of the RTN Blade Repair and Inspection (BRAI) course. We saw the opportunity to lead the market in taking the next steps to help prepare a new generation of competent rotorblade technicians. We took the decision to develop our own in-house programme and contacted 8.2 Aarufield to ask if they would work with us to provide technical insights. This new course sets an industry standard for rotorblade inspection and repair training and provides course participants with a thorough understanding of rotorblade composites and prepares them for the types of working conditions and environments they are likely to find themselves in when operating in the field.

They accepted the challenge and appointed Director, Andrew Bellamy to support the project. No stranger to wind turbine rotorblades, prior to forming 8.2 Aarufield with Renewable UK Chairman Julian Brown, Andrew led development of offshore rotorblades for a major OEM, and currently provides blade fleet management support to a number of major wind parks.”

**Stuart Cameron, Managing Director
at Maersk Training in Newcastle**

PURPOSE

This course enables delegates to develop the skills and knowledge required to undertake inspection, repairs and preventative maintenance across a broad range of rotorblade types when working on ground, platform or using rope access techniques.

Delegates will gain the inspection and repair competencies required to become a high quality entry level rotorblade technician.

CONTENTS

The course includes assessed theoretical and practical components, including:

- Rotorblade design, structure and materials
- Laminate, resin and fibre types
- Calculations for composites
- Quality control for composites
- Wet lamination and resin infusion techniques
- Vacuum consolidation and heated cure/post cure
- Specialist tools and equipment for composites
- Production with core materials
- Prepreg systems and UV curing resins
- Coatings, fillers and fairing
- Inspection tools, equipment and techniques
- Planning for rope access inspection and repairs
- Rope access repair and finishing
- Complex damage assessment
- Knowing when to fix and when to call the engineer
- The course has a breakdown of 30% theory, 70% practical

OBJECTIVES

On completion, delegates will be able to demonstrate their knowledge of:

- Composites technology, rotorblade design, manufacture and construction principles
- Inspection protocols and effective reporting
- Processing and repair with both styrene-based and Epoxy resin systems
- Undertaking repairs when using rope access techniques

ADMISSION REQUIREMENTS

An ability to competently use basic hand and power tools e.g. chisels, powered grinders and sanders is expected. There are optional rope access elements which require a minimum of IRATA Level 1 (or equivalent) to participate. The course is recommended for:

- Wind Turbine Owners and Operators
- Wind Turbine Manufacturers
- Independent Service Providers
- Installation & Maintenance Contractors
- Rotorblade Contractors
- Individuals or Companies looking to enter the wind sector

DURATION 10 days

PARTICIPANTS Maximum 8



MAERSK
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MAERSK TRAINING

2 Mercury Court, Orion Business Park,
Tyne Tunnel Trading Estate, North Shields,
NE29 7SN, United Kingdom.

Phone: +44 (0)191 270 3220

UK Freephone: 0800 169 4426

Email: newcastle@maersktraining.com

Web: www.maersktraining.com