

Doc. no: 0040-0001 V00	Doc. Type: Course Outline	Page: 1 of 4
Created: 2012-11-29	Description: Repair of Blades Level 2	Language: GB
Reviewed: 2015-04-12	Blade type: All types in service	Issued by: OS

Attendant profile

Attendant profile: WTG Service technicians

Course duration

10 days, 74 lessons

Pre-requisites for participation

To attend training course the participant must hold a certificate from one of the following:

- Global Blade Service Level 1

Alternatively same level of qualification gained from blade service in the field or from blade production.

Knowledge and skills must be proven by a qualification test prior to joining the course.

Course outcome

To qualify and certify knowledge and skills of technicians to undertake basic service and repair work on various types of WTG blades in accordance to:

- Global Blade Service Standard
- Service instructions from OEM.

Objectives

After the training, the participant will be able to:

Carry out internal and external inspection, assess and categorize damages on blade surface.

- Read and use information for service from:
 - Service Work Instruction
 - Technical Data Sheet
- Carry out repairs on blade surface for various types of blades Including:
 - Shell coating and laminate down to core or first 2 layers of fiberglass.
 - Leading edge first two layers.
 - Trailing edge max. 50 mm. crosswise.
 - Replace and test lightning receptor
 - Replace stall strips, vortex generators and LE tape
- Fill in inspection report and documentation for damage and repair

The participant have basic knowledge of:

- Blade design, materials and construction.

Training method

Theoretical training
Practical exercises

Success criteria

Minimum 80% correct answers on theoretical test
Approval of practical test

Training modules

1 Training information

- Practical information on the training course
- Presentation of participants
- Reason for training
- Objectives for training course
- Success criteria

2 Blade construction

- Materials for blades
- Stress on blades
- Various blade structures
- Test of materials and blades
- Terms and definitions

3 Prepreg

- Left blank on purpose

4 Materials for blades

- Left blank on purpose

5 Health and safety

- Health risk from polyurethane
- Health risk from epoxy
- Health risk from dust
- Personnel protective equipment
- Handling and storing chemicals on site
- Handling of waste

6 Bonding

- Left blank on prpose

7 Defects and damages

- Left blank on purpose

8 Inspection and categorizing

- Left blank on purpose

9 Documentation

- Left blank on purpose

10 Repair technique

- Left blank on purpose

11 Field repair

- Left blank on purpose

12 Handling of blades

- Left blank on purpose

13 Practical exercises

- Left blank on purpose

14 Tests

- Theoretical test representing objectives for training course
- Practical test representing skill level for training course