Attendant profile

Attendant profile: WTG Service technicians

Course duration

5 days, 40 lessons

Pre-requisites for participation

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

- Global Blade Service Level 3

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 service and repair work on carbon structure of WTG blades in accordance to:

- Global Blade Service Standard
- Service instructions from OEM

Objectives

After training the participant is qualified to:

- Define common root causes for defects and damages on carbon components in blade structure
- Understand and use information for service from:
  - Service Work Instructions
  - Technical Data Sheet

After training the participant is competent to carry out repair of carbon fibre laminate including following operations:

- Visual inspection and close visual inspection
- Intrusive inspection by removing damaged laminate for investigation of the extent of damage and possible root cause
- Measure out the extent of damage and mark up a laminate plan for repair
- Perform grinding, chamfering of repair area to specified requirements and tolerance

- Carry out the repair by producing new carbon prepreg preformed repair flange and make lamination using controlled prepreg process
- Logging of environmental conditions and process parameters throughout the process for documentation
- Final inspection of repair and reestablish surface laminate

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

3 Infusion

4 Prepreg

5 Materials for blades

6 Health and safety

7 Bonding

8 Defects and damages on carbon components

9 Inspection and c

10 Documentation

11 Repair technique

12 Field repair

13 Handling of

14 Practical exercises

- Practical exercises will be targeted to blade type from OEM, relevant for participant

15 Tests

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