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 training, the participant has basic knowledge of:

- Blade design, composite materials, construction, and production process
- Hand lamination and vacuum consolidation as repair process

After 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:

- Repair of surface laminate and small core replacements
- Repair processes by hand lay-up and vacuum consolidation

• Reconstruction of surface geometry
• Surface topcoat and LEP
• Documentation following GBS standard
• Repair tasks according to global standards for safety and quality

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

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3 Health and safety

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4 Materials for blades

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5 Production process

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6 Bonding

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7 Defects and damages

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8 Service work instructions

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9 Documentation

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10 Repair technique

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11 Field repair

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12 Handling of blades

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13 Practical exercises

- Hand layup
- Vacuum consolidation
- Building TE laminate
- Repair of LE
- Laminate repair
- Surface coating repair.
- Replacement of lightning receptor
- Repair of TE

14 Tests

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