

Siemens Gamesa - SG Training Web

SE-P-16700

Structural Blade Repair

Purpose

The overall aim of the course is to enable participants to perform structural blade repair of epoxy and polyester fiberglass on WTG blades within SGRE area of responsibility according to work instructions and other relevant documentation.

Who should attend?

This course is intended for Siemens Gamesa Renewable Energy's and approved subcontractor's employees whose duties include repair of blade structural damages on blades within SGRE's responsibility.

Objectives

Upon completion of the course the participants are able to:

- Demonstrate execution of repairs according to relevant Work Instructions (WI) and Checklists (CH)
- Explain with own words the structure of a blade, and the relation between inner and outer laminate by analyzing the laminate plan.
- Demonstrate safe and proper handling of grinding/sanding machines and the usage of appropriate PPE according to relevant safety rules in the work instructions.
- Practice repair quality as specified in the work instructions.
- Discuss and argue why the repair is of bad quality.
- Demonstrate how to plan the work effectively so that the work gets done correctly in world quality and in the shortest possible time according to time limits given by the instructor.
- Show how to use appropriate PPE according to relevant work instructions with respect to the material (filler, paint and resin etc.) being used.
- Demonstrate how to document (photo card, check lists, etc.) the repair work both before and during and after repair work.
- Show how to work safely with epoxy, mixing 2-component material and handle it as specified in the relevant Safety Data Sheets (SDS).
- Demonstrate and perform quality control on own and others' fiberglass repair work with relevant technical explanation according to work instructions.
- Demonstrate correct sorting of waste.

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Prerequisites

Course prerequisites are:

- GWO Blade Repair (if not available Blade B)
- UP-9702 Spot Paint
- SWP-UP-10297 DK AMU Epoxy Certificate (upload module: UP-10297). To find approved training provider, please search www.amukurs.dk or Tech College Aalborg. 2 days course Personal safety when working with epoxy and isocyanates.

Notice: The 4 Epoxy and/or Polyester Safety eLearnings listed under course number SE-P-16940 are NOT valid for attending the course in Denmark,

Approved Spot Paint Certificate from External Providers

- Training must be booked directly with the external provider.
- Certificate must be uploaded to upload module: UP-9702 Spot paint.
- To request approval of other Spot Paint certificate, you are welcome to send it to GTCSUP@siemens-energy.com
- Tech College - Denmark Spot Paint on metal and composite surfaces
- Wind Trade Academy - US Spot Paint on metal and composite surfaces
- Hempel - Multiple countries Maintenance of wind towers using paint coatings
- Global Wind Service Academy - Poland Spot Paint on metal and composite surfaces
- Global Wind Consulting - Poland Spot Paint on metal and composite surfaces
- Onion Group - Poland Spot Paint on metal and composite surfaces
- 3T Training - UK Spot Paint on metal and composite surfaces
- Renewable Power Academy (RPA) -UK Spot on metal and composite
- Frosio - Norway FROSIO Certified Surface Treatment INSPECTOR LEVEL II
- Renewable Power Academy (RPA) - US Spot Paint

Notes

Recertification

The recertification for Structural Blade Repair SE-P-16700 certificate is as follows:

After 1 year: SE-P-16720 Structural Blade Repair Refresher - Written Test (eLearning)

After 2 years: SE-P-16710 Structural Blade Repair Refresher (classroom).

Following refreshers follow this pattern.

Theory / Practice

20% / 80%

Validity

1 year

Export control

AL-Number: N

ECCN: EAR99