

GBS Training program

- Training structure
- Courses
- Acquired competences
- Duration

Global Blade Service

Training structure

Training structure

Entry level — **GBS L-1**

Basic — **GBS L-2**

Experienced — **GBS L-3**

Supervisor — **GBS L-4**

Blade inspection
3 days
Course outline

Basic Blade Repair
10 days
Course outline

Structural Blade Repair
10 days
Course outline

Supervisor - Quality Assurance
5 days
Course outline

Subject specific

LPS Inspection
1 day

LPS Mesh Repair
3 days

Structural Carbon Repair 5 days

1 2 3 4 5

Certificate

Acquired competences

- General knowledge of WTG blades and construction
- Basic chemical safety

Certified technician can carry out:

- Internal and external inspection, documentation and classification of defects, damages, and degradation.

Back

Acquired competences

- General knowledge of composite materials
- Knowledge of hand lamination and vacuum consolidation as repair process

Certified technician can carry out:

- 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 standard for safety and quality

Back

Acquired competences

- Knowledge of composite materials
- Knowledge of structural defects and damage on blades
- Knowledge of resin infusion process for repair tasks

Certified technician can carry out:

- Repair according to OEM service work instructions
- Repair on structural blade parts of fiberglass with polyester/epoxy matrix
- Repair process, hand lamination, vacuum consolidation, and resin infusion
- Repair of structural bond lines
- Documentation following GBS standard
- Repair tasks according to global standard for safety and quality

Back

Acquired competences

- General knowledge of mesh as LPS
- Knowledge of resin infusion process for mesh repair
- Knowledge of health risk when working on LPS

Certified technician can carry out:

- Carry out vertical replacement of mesh by vacuum infusion
- Measure out resistance in repair mesh by use of milliohm meter
- Documentation following GBS standard
- Repair tasks according to global standard for safety and quality

Back

Acquired competences

- Knowledge of general construction of lightning protection system on blades
- Knowledge of health risk when working on LPS

Certified technician can carry out:

- Inspection, recognize typical lightning damages on the surface and structure of the blade
- Measure out resistance in LPS using milliohm meter
- Documentation following GBS standard

Back

Acquired competences

- General knowledge of carbon structure in blades
- Knowledge of prepreg as repair process

Certified technician can carry out:

- Repair of structural pultruded carbon flange or carbon prepreg part
- On-site repair, using prepreg process, adapted to environmental conditions
- Documentation following GBS standard
- Repair tasks according to global standard and ATEX for safety and quality

Back

Acquired competences

- Knowledge of quality assurance
- Knowledge of repair processes and documentation formats
- Knowledge of risk assessment and chemical safety

Certified technician can carry out:

- Supervise blade techicians onsite or remote for inspection and repair tasks
- Support repair teams using verbal or written communication, TDS, SDS and service work instructions
- Storage and organizing of data

Back

Certified technician

GBS trained and certified Blade Technicians will be uploaded to GBS database:

Name

Date of birth

Country

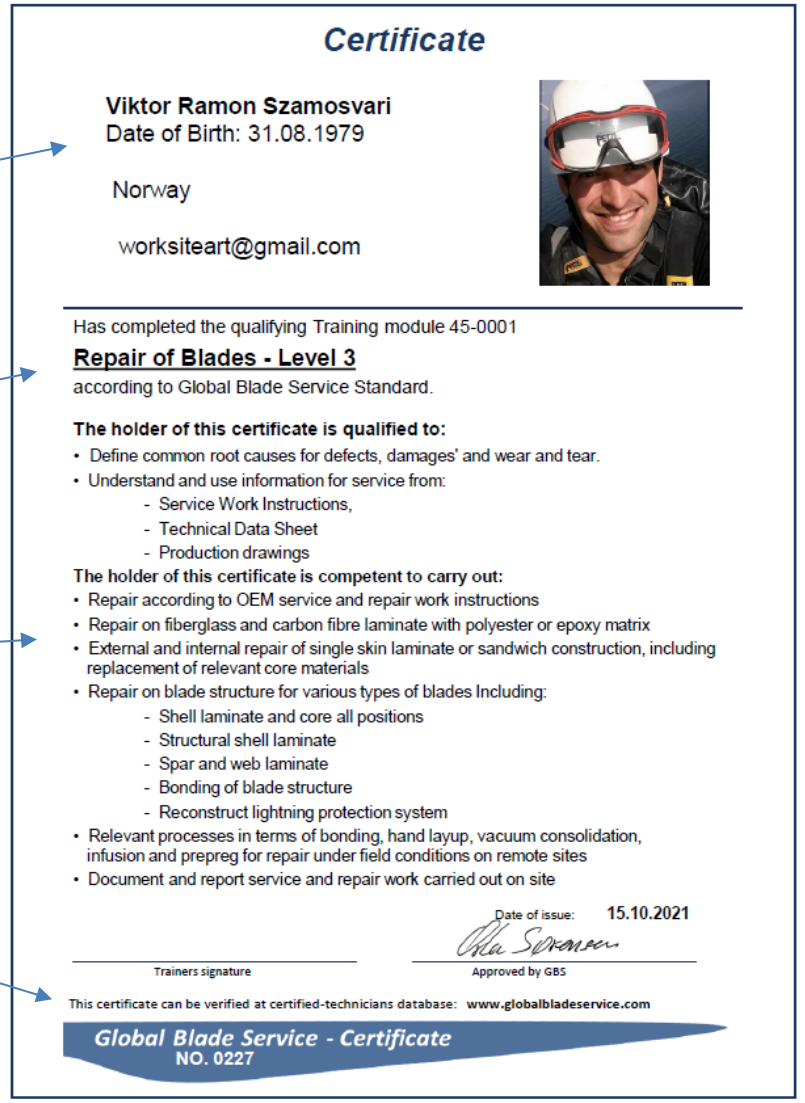
Certificate level

List of qualifications and competences

Certificate number

Always accessible on:

[Global Blade Service - Certified technicians]



Certificate

Viktor Ramon Szamosvari
Date of Birth: 31.08.1979

Norway

worksiteart@gmail.com

Has completed the qualifying Training module 45-0001

Repair of Blades - Level 3

according to Global Blade Service Standard.

The holder of this certificate is qualified to:

- Define common root causes for defects, damages' and wear and tear.
- Understand and use information for service from:
  - Service Work Instructions,
  - Technical Data Sheet
  - Production drawings

The holder of this certificate is competent to carry out:

- Repair according to OEM service and repair work instructions
- Repair on fiberglass and carbon fibre laminate with polyester or epoxy matrix
- External and internal repair of single skin laminate or sandwich construction, including replacement of relevant core materials
- Repair on blade structure for various types of blades Including:
  - Shell laminate and core all positions
  - Structural shell laminate
  - Spar and web laminate
  - Bonding of blade structure
  - Reconstruct lightning protection system
- Relevant processes in terms of bonding, hand layup, vacuum consolidation, infusion and prepreg for repair under field conditions on remote sites
- Document and report service and repair work carried out on site

Date of issue: 15.10.2021

Trainers signature

Approved by GBS

This certificate can be verified at certified-technicians database: **www.globalbladeservice.com**

Global Blade Service - Certificate
NO. 0227

Back

USA – Info and available training dates:

https://globalbladeservice-usa.com

Download of full Course Outline

https://www.globalbladeservice.com/training

Back