Constantin Alin BARBU

## Freelance Surface Treatment & Insulation Inspector FROSIO level III - Own limited company

Ploiesti

# Contact details

Email: barbu.constantin.alin@gmail.com

Tel: +40729426003

City: Ploiesti

# About me

Experienced and certified inspector FROSIO lvl III with 8 years experience in the field of paint/coating. I have a robust background in overseeing the quality and standards of various coating applications across diverse industry projects. My hands-on experience spans from the initial stages of surface evaluation to the final layers of coating application, ensuring compliance with industry best practices and standards. Over the years, I have gained proficiency in using advanced coating inspection equipment such as: Ambient Condition Monitoring Instruments, DFT & WFT measurement devices, Surface Cleanliness Visual Comparators, Texture Measurement Tools for Substrates, and Advanced Contamination Analysis Equipment. Moreover, I've developed a keen eye for detecting imperfections and have been trained in the use of equipment like Holiday Detectors and Bond Strength Testers for evaluating the integrity of dry coatings. I pride myself on my meticulous attention to detail and my commitment to ensuring the longevity and quality of protective coatings.

# Professional experience

## Experience by departments

Q**A/QC** : **8** years

## Feb 2023 - present Freelance Surface Treatment & Insulation Inspector FROSIO level III - Own limited company

Worlwide| QC/QA | Oil / Gas

* Inspect the preparation of surfaces to be treated, ensuring proper cleaning, removal of contaminants, and suitable conditions for coating or insulation.
* Verify the correct application of primers, undercoats, and topcoats.
* Assess the quality and uniformity of applied coatings, including thickness measurements, adhesion tests, and visual inspections.
* Ensure coatings are applied in accordance with specified procedures and standards.
* Examine insulation materials and their application to various surfaces, ensuring correct installation techniques and adherence to design specifications.
* Check for potential issues such as gaps, voids, or incorrect materials.
* Confirm that all surface treatment and insulation work complies with relevant industry standards, project requirements, and manufacturer guidelines.
* Conduct random sampling and testing to ensure ongoing compliance throughout

the project.

* Identify defects or non-conformities in surface treatments and insulation, documenting issues with photographic evidence and detailed descriptions.
* Recommend corrective actions and follow up to ensure deficiencies are addressed and resolved.
* Prepare comprehensive reports detailing inspection findings, observations, and recommendations for improvement.
* Maintain accurate and organized records of all inspections, tests, and quality control measures undertaken.
* Keep a detailed log of work progress, noting any deviations from plans or delays.
* Report progress and any issues to project management and clients as required.
* Provide expert advice on surface treatment and insulation methods, materials, and best practices to project teams, contractors, and clients.
* Assist in the interpretation of project specifications, ensuring all stakeholders understand the requirements and standards.
* Contribute to the development and review of project-specific quality plans, inspection procedures, and work instructions.
* Ensure that all procedures are up-to-date and reflect current industry standards and practices.
* Ensure all inspection activities are conducted in accordance with health, safety, and environmental regulations.
* Promote safe working practices and conduct safety inspections to identify potential hazards and ensure a safe working environment.
* Conducting on-site inspections of surface treatment and insulation projects.
* Utilizing specialized tools and equipment for inspection, such as thickness gauges, adhesion testers, and thermal imaging cameras.
* Collaborating with project managers, quality control teams, and contractors to ensure smooth workflow and high-quality outcomes.
* Traveling to various project sites, sometimes in remote or challenging environments, to perform inspections.

## Dec 2018 - present

## Quality Inspector Lead for Wellhead and Valves Assembly,Hydro & gas Testing, FAT, Surface Preparation and Coating for following customers: ARAMCO,EXXON, QATARGAS, BP, SHELL, PEMEX, OMV - **at** SLB

Ploiesti | Quality Control | Oil / Gas

I coordinate and train a team of 15 inspectors, having responsibility for the following activities:

* Conduct thorough inspections throughout and upon completion of assembly, testing, painting, packaging, and Hydro & gas testing processes, ensuring adherence to procedural standards.
* Execute Factory Acceptance Testing (FAT) to validate that products meet all specified performance and quality criteria before release.
* Perform detailed assessments during the assembly of parts, verifying correct installation and alignment as per engineering specifications.
* Initiate Non-Conformity Reports (NCRs) and promptly notify both the production supervisor and the quality control department upon detection of any discrepancies or deviations from standards.
* Examine surfaces meticulously to ensure they are pristine and devoid of

contaminants such as dust, grease, and rust.

* + Authenticate that designated surface preparation methods, including blasting or power tool cleaning, have been correctly and effectively applied.
	+ Record environmental metrics, including humidity, dew point, and temperature, confirming they are within the specified limits for painting operations.
	+ Inspect and measure the wet and dry film thickness of coatings using specialized gauges, ensuring compliance with project specifications.
	+ Visually detect and document any defects, including runs, sags, bubbles, and holidays (omitted areas), and take corrective actions where necessary.
	+ Execute a thorough completeness assessment according to the Bill of Materials (BOM), with particular attention to product protection and packaging quality.
	+ Oversee the Hydro & gas testing process, ensuring that all systems are tested under the required conditions and results are accurately documented.

I assign tasks appropriately, taking into consideration the strengths and weaknesses of team members to optimize performance.

Prioritize tasks effectively, ensuring the efficient use of time and resources to meet project deadlines.

### Acquired skills and competencies:

Quality Assurance, Quality Management, FAT, Supervisory Skills, Surface Preparation, Coating Inspection, Blasting Technique, Adhesion, Pressure Testing

## Nov 2016 - Dec 2018 Quality Control Inspector - Timken

Ploiesti | Quality Control | Wind Energy

* + Oversees the inspection of manufacturing milestones, evaluates them, and approves based on established specifications and procedures.
	+ Conducts dimensional inspections.
	+ Performs NDE inspections (Liquid Penetrant and Magnetic Particle).
	+ Electronically archives records of measured parameters for future process capability analyses.
	+ Grants approval for the initial part of manufacturing line processes.
	+ Verifies the painting of bearings, ensuring that all surfaces meet quality standards and specifications.
	+ Works closely with the Metrology department to ensure the calibration and regular verification of devices.
	+ Ensures the quality of inspected products, processes, and services, and ensures adherence to both company and corporate standards, relevant procedures, and work instructions.
	+ Proactively identifies and resolves quality issues, alerting the operations coordinator when issues fall outside of the control area.
	+ Adapts activities as needed to achieve desired outcomes, leveraging training and the adaptability inherent to the quality inspector role.
	+ Authorizes and approves the modification of parts that deviate from specifications, provided they don't compromise the product's optimal performance.

### Acquired skills and competencies:

Technical drawing, Teamwork, NDT Level 2 Inspector, Visual and dimensional inspection

**Education**

2023 - present

2009 - 2010

2004 - 2008

## Bachelor's degree - Oil and Gas University

Electrical and Mechanical Engineering | Ploiesti

## Undergraduate - Civil Aviation School

Flight attendant | Bucharest

"Spiru Haret" National College PLOIESTI

# Skills

## General skills

Good communication skills, Social person, Punctuality, Very determined, Good knowledge of Microsoft Office.

# Foreign languages

English: Advanced

# Other sections

Certifications

Hobbies Driving license

RINA Certificate - HSSE - Field Personnel Safety

date acquired Dec 2023

## FROSIO coating inspector level III

date acquired Sep 2023

## EN ISO 9712 level II Visual Testing

date acquired Feb 2022

## ISO 9712 NDT-MP

date acquired May 2018

## ISO 9712 NDT-LP

date acquired Jun 2017

## Flight Attendant Certification

date acquired Jun 2009

## **C**ooking, **T**ravelling, Trekking Category B

date acquired 25 Jul 2007