

# Mastering Corrosion: Fundamentals, Mitigation Solutions, and Advanced Protection Strategies



We invite you to join a specialized training session tailored for professionals in engineering, construction, and industrial maintenance. This webinar provides an in-depth analysis of the fundamental principles of corrosion, modern prevention strategies, and advanced solutions for protecting steel surfaces.

**Duration : 2 hours**  
**Free registration**  
**contact us to book your date**  
(Customized webinars can be arranged for companies or specific groups.)

250\$  
VALUE

**For Engineers and technicians**

**Participants will receive a personalized formation certificate. This program is accredited by several Canadian engineering boards**

**Claude Dupont**

**Director R&D**

**claudedupont@galvatech2000.com**

**galvatech2000.com**



## Topics Covered

- **Rust vs. Corrosion:** Understanding the critical distinctions and their practical implications.
- **Causes and Mechanisms of Corrosion:** Identifying key triggers and active processes.
- **The Zinc/Steel Relationship:** Scientific analysis of metal interactions and application methods.
- **Galvanization Techniques:** An overview of processes such as hot-dip galvanization, metallization, plating, and other technologies.
- **Galvanic Corrosion and Sacrificial Protection:** Leveraging electrochemical principles for effective defense.
- **Corrosion Prevention through Design:** Integrating design considerations to mitigate risks.
- **Limitations of Traditional Coatings:** Laboratory test results and innovative alternatives.
- **Performance of Hot-Dip Galvanized Systems:** Examining duplex systems and enhanced performance metrics.
- **Rust-Anode Technology:** Features and benefits of this groundbreaking solution.
- **Rehabilitation of Corroded Structures:** Restoration and reinforcement methods, including:
  - Increasing zinc mass on existing structures.
  - Encapsulating lead-based paints.
  - Applications on new steel surfaces with minimal preparation.
- **Environmental Considerations:** Adopting sustainable and eco-friendly practices.
- **Quality Control and Standards:** Ensuring compliance with industry standards.
- **Origins and Achievements of Rust-Anode Technology:** Insights into military innovations and operational success, including NATO adoption.
- **Case Studies and Real-World Applications:** Concrete examples and expert testimonials.