



ENGINEERING AND TECHNICAL TRAINING

Protective Coatings and Painting Inspection

5 day course

Classroom, online or in-house

Course overview

A coating fails because of what happened to the steel before it was applied far more often than because of the paint, which is why inspection concentrates on preparation and conditions rather than on the finished appearance. This course covers that inspection. Delegates work through corrosion protection principles and coating types including their service limits, surface preparation standards, profile and the cleanliness testing that governs adhesion, and soluble salt contamination which destroys a coating from underneath. Ambient conditions and the dew point rule are covered. Application methods and film thickness measurement, wet and dry, follow. Holiday detection, adhesion testing and defect identification are addressed. The course closes on inspection documentation, on repair and on specifying a coating system for a service.

What you will learn

- Select coating types against their service limits
- Apply surface preparation standards and verify profile and cleanliness
- Test for soluble salt contamination and act on the result
- Control ambient conditions and apply the dew point rule
- Measure wet and dry film thickness correctly
- Carry out holiday detection and adhesion testing
- Document inspection, specify repair and write a coating specification

Who should attend

- Coating and painting inspectors
- Corrosion and integrity engineers
- Maintenance and turnaround supervisors
- Fabrication and construction quality staff
- Contractors applying protective coatings

Course outline

- 01 Failures that begin before the paint
- 02 Corrosion protection and coating types
- 03 Surface preparation standards
- 04 Profile and cleanliness testing
- 05 Soluble salts and contamination
- 06 Ambient conditions and dew point
- 07 Application and film thickness measurement
- 08 Holiday detection, adhesion, repair and specification

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 25 December 2026	Online	Online	R8,500
28 December 2026 to 1 January 2027	Kigali, Rwanda	Classroom	USD 1,325
11 to 15 January 2027	Harare, Zimbabwe	Classroom	USD 1,325
25 to 29 January 2027	Cape Town, South Africa	Classroom	R19,950



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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