

*WebCorr Corrosion Consulting Services Presents*

# Corrosion in Automotive Systems

Date: As published on website Venue: As published on website

## Course Overview

This 2-day corrosion course systematically and thoroughly covers specific corrosion issues, materials and paint systems encountered in the automotive systems.

This corrosion short course can be taken as in-house training course, online course and distance learning course worldwide. It can also be customized to meet the specific needs of your organization.

## Who Should Attend

Designers, Engineers and QA/QC personnel working in the automotive industry.

## Course Outline

1. Corrosion Basics
2. Forms of Corrosion Encountered in Automotive Systems
  - 2.1 Uniform Corrosion
  - 2.2 Crevice Corrosion
  - 2.3 Galvanic Corrosion
  - 2.4 Pitting Corrosion
  - 2.5 Erosion Corrosion
  - 2.6 Microbiologically Influenced Corrosion (MIC)
3. Pre-coated Steels for Use in Automotive Systems
  - 3.1 Zinc-Coated Steel
    - 3.1.1 Hot-dip Galvanized Steels
    - 3.1.2 Zn-Al-Mg-Si Alloy Hot-Dip Galvanized Steels
    - 3.1.3 Electrogalvanized Steels
    - 3.1.4 Zincrometal
    - 3.1.5 Zinc-alloy Coated Steels
  - 3.2 Other Coated Steels
    - 3.2.1 Aluminum-coated
    - 3.2.2 Long terne coated
    - 3.2.3 Organic composite coated
4. Paint Systems for Automotive Systems
  - 4.1 Surface Preparation
    - 4.1.1 Metal cleaning
    - 4.1.2 Phosphate conversion coating
  - 4.2 Primers
    - 4.2.1 Spray applications
    - 4.2.2 In-dip coating



- 4.2.3 In-flow coating
- 4.2.4 Electrocoating
- 4.3 Topcoats for Automotive Systems

5. Corrosion in Other Automotive Systems
  - 5.1 Fuel systems
  - 5.2 Cooling systems
  - 5.3 Electrical systems
  - 5.4 Automotive exhaust systems
  - 5.5 Other automotive systems
6. Design Considerations in Automotive Systems
7. Corrosion Testing in Automotive Systems
8. End-of-course examination



### Course Registration

Please register online at [www.corrosionclinic.com](http://www.corrosionclinic.com)  
Or use the form below (photocopies of this form may be used for multiple bookings).

Dr/Mr/Ms \_\_\_\_\_  
Organization \_\_\_\_\_  
Contact Person \_\_\_\_\_  
Contact Dept \_\_\_\_\_  
Tel \_\_\_\_\_ Fax \_\_\_\_\_  
Email \_\_\_\_\_

Payment should be made by TT or online banking. Currencies in Australian Dollar, Canadian Dollar, US Dollar, Euro and Sterling Pound can be transferred directly without conversion. Our bank details can be found at the link below:

<http://www.corrosionclinic.com/payment.html>



### Course Fee and Discount

**Standard:** \$3,500      **Discount:** \$3,150

The fee includes a hardcopy of course note, certificate, light lunch, coffee breaks each day during the course.

Discount applies to a group of 3 or more persons from the same organization registering at the same time, or early-birds making payment at least 8 weeks before the course commencing date.

### Cancellation and Refunds

Cancellation or replacement should be conveyed to WebCorr in writing (email or fax). An administration charge of 50% of the course fee will be levied if the cancellation notice is received from 14 to 7 days before the course commencing date. No refund will be made for cancellation notice received 6 days and less. No refunds will be given for no-shows. Should WebCorr find it necessary to cancel a course, paid registrants will receive full refund. Refund of fees is the full extent of WebCorr's liability in these circumstances.



WebCorr has NACE certified Corrosion Specialist (#5047) providing customized in-house training, online and distance learning corrosion courses, corrosion seminars and workshops on corrosion, materials, metallurgy, paints and metallic coatings. Our corrosion courses are developed and taught by NACE certified Corrosion Specialist with over 30 years of practical experience in the field. Our training success is measured by your learning outcome.

