

Corrosion in Automotive Systems

Registration Form

Photocopies of this form may be used for registrations.
You can also register online at www.corrosionclinic.com

Please register the following person(s) for the above course (please TYPE or PRINT clearly):

1. Dr/Mr/Ms _____
Designation _____
2. Dr/Mr/Ms _____
Designation _____
3. Dr/Mr/Ms _____
Designation _____

*delete where inappropriate

Enclosed is a cheque / bank draft No. _____
for S\$ _____ (payable to "WebCorr Corrosion Consulting Services") being Registration Fee for the above person(s).

Organization _____
Contact Person _____
Contact Dept _____
Telephone _____ Fax _____
Email _____

Crossed cheques should be made payable to "WebCorr Corrosion Consulting Services" and mailed together with the registration form to:

WebCorr Corrosion Consulting Services

Toa Payoh Central., PO Box 225,
Singapore 913108
Tel: (65) 64916456 Mobile: (65) 97110759
Fax: (65) 64916456
Email: webcorr@corrosionclinic.com
<http://www.corrosionclinic.com>

Course Details

Date: 25-26 September 2008
Time: 9:00 am to 5:00 pm
Venue: TBA
Course Fee: S\$1095 (GST not applicable)
Closing Date: 2 weeks before course date
Discount:
Group: (3 or more people): 10%
Early-bird: N% **if paid** "N" months before the course commencing date

Withdrawal/Refund Policy:

Withdrawal or replacement should be conveyed to the organizer in writing (email or fax). An administration charge of 50% of the course fee will be levied if the withdrawal notice is received less than 7 working days before the course commencing date. No refund will be made for withdrawal notice received 3 working days and less.

Certificates:

Certificate of attendance will be given to participants with at least 75% attendance of the course.

Cancellation:

WebCorr reserves the right to cancel the course and fully refund the participants should unforeseen circumstances necessitate it.

Corrosion in Automotive Systems

Conducted by

Dr. Qiu Jianhai *BEng PhD CEng MIM FICorr*
NACE Certified Corrosion Specialist

Date

25-26 September 2008

Venue

TBA

Organized by:



Course Overview:

This 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.

Course Contents

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
3. Pre-coated Steels for Use in Automotive Systems
 - 3.1 Zinc-Coated Steel
 - 3.1.1 Hot-dip galvanized Steels
 - 3.1.2 Electrogalvanized Steels
 - 3.1.3 Zincrometal
 - 3.1.4 Zinc-alloy Coated Steels
 - 3.2 Other Coated Steels
 - 3.2.1 Aluminum-coated
 - 3.2.2 Long terme 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

Who Should Attend

This course has been structured in such a way that it is particularly suited for the technologists and engineers who wish to gain an overall knowledge of corrosion and its prevention in automotive systems.

Course Lecturer

Dr. Qiu Jianhai *BEng PhD CEng MIM FICorr*

Dr Qiu has 25 years industrial, teaching, research and consulting experience in the field of corrosion. He has been working closely with both local and overseas companies and has been an active consultant to governmental agencies, multinational companies and private organizations on corrosion and materials related issues such condition assessment, process optimization, quality control, corrosion testing and monitoring, life predictions, troubleshooting and corrosion failure analysis. Dr. Qiu is also experienced in providing expert witness and assistance in litigation and arbitration matters related to corrosion and materials. He has authored about 120 technical papers and reports. Dr. Qiu was an invited contributing author to the latest edition of ASM Handbook Vol.13C Corrosion: Environments and Industries. His biographical profile was included in the 7th edition of Marquis Who's Who in Science and Engineering.

Dr. Qiu is a NACE certified Corrosion Specialist (the highest level of certification) and a Fellow Member of the Institute of Corrosion (UK). He is a Chartered Engineer registered with the Engineering Council (UK), a professional member of the Institute of Materials, Minerals and Mining (UK). He is the Vice Chairman of the Corrosion Association of Singapore, and the Singapore representative in the International Corrosion Council (ICC).