

# **CATHODIC PROTECTION Training Program (PROFESSIONAL AND ADVANCE LEVEL)**



The application of protective coatings represents the most widely adopted means of controlling the corrosion of structural metals. Regrettably, all too often the coating fails to achieve the results expected of it. This may be because of an inappropriate coating system, failure to appreciate or to satisfy the technical requirements of the application process, inadequate inspection, or on occasions, defective materials.

**This Program is ideally suited to following individuals who are:**

- **For Supervisors, Engineers, Sales Personnel**
- **Already working class who are willing to update and learn the new methodologies of Protective Coatings.**
- **Who want to be good and reputable jobs in the market and are like to enhance their skills in Protective Coatings and Its Standards.**

**Program is offered by: 3D Educators – Trainers & Consultants**

## ***Table of Contents***

Detail

Inauguration

Structure

Topics & Time Allocation

About the Program Designer & Instructor

Syllabus

3D EDUCATORS

## **Program Details**

### Inauguration

The Training Program will be inaugurated by a senior member of 3DEducators

### Program Structure

Number of classes in a week	Two Class Per Week
Duration of each class	2-Hour
Total Duration	<b>30 Hours</b>

### Other Learning Activities:

Classroom Assignments	2
Presentations by Trainees	1

### About the Program Instructor

The “Protective Coating” Program will be conducted by Certified Consultant and having the vast experience of training and consulting. They have worked with various large Government, National, and multinational organizations in local and abroad.

The Trainers who are conducting this program are have on the position of the following:

- ✓ Project Managers
- ✓ Implementers

They trainers are foreign qualified and having the certification of A.M.I (CORR) S.T – UK MEMBER N.A.C.E – USA.

As Consultant & Senior Trainers the team of trainers from Engineering side we **3D Educators – Trainers & Consultants** would not compromise on the faculty.

## **Program Syllabus**

### **COURSE OUTLINE:**

- Introduction to Corrosion
- Pipeline Coatings
- Cathodic Protection—How It Works
- Criteria for Cathodic Protection
- Survey Methods and Evaluation Techniques
- Instrumentation
- Ground Bed Design
- Impressed Current Cathodic Protection
- Cathodic Protection with Galvanic Anodes
- Cathodic Protection with Other Power Sources
- Stray Current Corrosion
- Construction Practices
- Maintenance Procedures
- Microbiologically Influenced Corrosion

## **TERMS & CONDITIONS**

### **WITHDRAWAL FROM THE CERTIFICATION**

Students are not allowed to withdraw from the CERTIFICATION. If a student cannot continue the CERTIFICATION his/her fee will be forfeited.

### **CONDUCT AND DISCIPLINE**

A disciplinary action, leading to rustication, will be taken against students whose conduct is found objectionable at any time during the course of study. Reference will be made to 3D Educators code of conduct.

### **EVALUATION AND GRADING**

The performance of students is evaluated through continuous observation of a student's performance in the CERTIFICATION – class participation, submission of assignments, quizzes and exercises.

The student will be examined through three hourly exams conducted at the midterm and a final exam at the end of the program. Total marks for passing the CERTIFICATION will be 60 out of a total of 100.

Students who do not meet the attendance or any other eligibility criteria will not be allowed to appear in the final examination.

The following grading plan will be applicable for the CERTIFICATION:

<b>A</b>	<b>87 - 100</b>
<b>B+</b>	<b>81 -86</b>
<b>B</b>	<b>72 - 80</b>
<b>C+</b>	<b>66 - 71</b>
<b>C</b>	<b>60 - 65</b>
<b>F</b>	<b>below 60</b>

**FINAL CERTIFICATION SHALL BE AWARDED BY IMRTC (INTERNATIONAL  
MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM) – USA**

Students who are unable to appear for the final exam are required to submit a written application stating the reason for not appearing for the exam. 3D Educators reserves the right to approve or deny such applications. If approved, the student will be allowed to sit for the exam within one month. Failure to do so, the student will be resubmit the examination fee and sit the future schedule exam. Without passing of the exams no certification will be awarded.



3D EDUCATORS



## **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.
- If you are outside country or city then extra courier charges shall be incurred for Certificate.

## **PRECAUTIONARY MEASURES**

- ✓ During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- ✓ Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- ✓ If you have taken the admission in the course online, ethically it is recommended and suggested that you only avail this facility.
- ✓ Recording of Lectures are not allowed at your end.

**FINAL CERTIFICATION SHALL BE AWARDED BY IMRTC (INTERNATIONAL  
MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM) – USA**



This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions.

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.



**DISTANCE NOT MATTER**

You can join in the live classes Sessions of **3D EDUCATORS – TRAINERS & CONSULTANTS** from anywhere of the world.

**CONTACT US:**

9221-34141329

9221-34857148

0333-2402474

0322-2083032

[info@3deducators.com](mailto:info@3deducators.com)

<http://www.3deducators.com>

**(Get the Admission Form)**

[Admission Form](#)

**MANAGEMENT**

**3D EDUCATORS – TRAINERS & CONSULTANTS**





FINAL CERTIFICATION AWARDED BY IMRTC – USA

SAMPLE CERTIFICATE

**CERTIFICATE  
OF EXCELLENCE**

IMRTC USA Recognized

**CERTIFICATION**



*This is to Certify That*  
**Mr. Danny Jones Wales**  
*has successfully met the certification requirements as outlined in  
IMRTC content and the policies adopted thereunder; hereby grants the certification of*

**Certified OHSAS 180001 Lead Implementation**

Student ID: IM864532201

Date of Commencement: May 4, 2014

Date of Ending: July 4, 2014



*Cheryzel Rhodes*

Principal of Institute

Director Affiliations and Official Affairs

**INTERNATIONAL MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM**

Address: 2 Amy Avenue, Edison NJ 08817 NEW JERSEY - United States of America

Chapter ID: AS2933770

Partnership ID: AS5588322\_Pakistan

*Verification@imrtc.org*

**CERTIFICATE OF AUTHORIZATION**



**CERTIFICATE  
OF AUTHORIZATION**

IMRTC USA Recognized

**CERTIFICATE OF AUTHORIZATION**



*This is to Certify That IMRTC Authorized*

**3D EDUCATORS - TRAINERS & CONSULTANTS**

*to work as Training & Research Partner in capacity of  
PARTNER THROUGH PAKISTAN CHAPTER  
for the scope of activity shown below in accordance with the applicable rules of  
the IMRTC. The use of this certification and the authority granted by this  
Certificate of Authorization are subject to the provision of agreement set  
forth in the application.*

*The validity of this certificate is for Two Years from the date of Issuance  
and will increase according to the performance  
Issuance Date: 16 Aug 2015*

*Cheryyel Rhodes*

Director Affiliations and Official Affairs



Chapter ID: AS2933770

**INTERNATIONAL MANAGEMENT RESEARCH & TECHNOLOGY CONSORTIUM**

Address: 2 Amy Avenue, Edison NJ 08817 NEW JERSEY - USA, <http://www.imrtc.org>

Partnership ID: AS5588322\_Pakistan

*Partnerships@imrtc.org*

3D