



**HRDF CLAIMABLE**

# Materials Selection & Corrosion

**Date: May 2017**

**Venue: Puchong, Selangor**

- This two day course aims to equip participants with the knowledge and skills to carry out materials selection and corrosion studies for industrial applications.
- The course has a focus on the selection and performance of metallic materials within the oil and gas sector.
- Instruction will be given by lectures, interactive discussion, case studies and software demonstration (time permitting).

## Objectives

- To develop a working knowledge of the materials selection process
- To identify corrosion and other risks to materials within the specific service environment
- To evaluate the mitigation options and see how they can be used to expand the range of materials which can be selected

## Course Contents

- The materials selection process
- Standards used in the oil and gas sector
- Corrosion and degradation of materials
- Corrosion modeling
- Life cycle costing
- Corrosion mitigation and control

## Course Duration

2 days

## Who Should Attend

- Discipline Engineers involved in projects which involve materials selection or corrosion
- Materials Engineers
- Managers who want to gain an overview of the materials selection and corrosion issues
- Integrity Engineers
- Maintenance Engineers

## Certification

Certificate of attendance

## Fees

RM 700.00 (Inclusive 6% GST)

## Mode of Payment

Payment to be made by CDM (Cash Deposit Machine, Cheque, Telegraphic Transfer and Bank Draft to :

Account Name:

MATERIALS TECHNOLOGY EDUCATION SDN BHD

Account No : 00100 311 204

Swift Mode : HLBBMYKL

Bank Name : Hong Leong (M) Berhad

Bank Branch : Kuala Lumpur Branch

## Trainers



Dr Andrew Spowage graduated from The University of Nottingham with a PhD in Materials Engineering and Master Degree in materials chemistry. He has expertise in materials characterization & testing, metallurgy & materials science and project management. He has worked on over 100 industrial, research and consulting project around the world. The majority of these project involved the characterization of materials or products to identify process, materials or design faults that were hindering production. Some of his experience worked are in characterization and failure analysis of die cast magnesium alloys, corrosion behavior of ceramic coated magnesium alloy coatings and quality inspection of laser cut Brass switches. He is also work as Associate Professor at the Nottingham University Malaysia Campus, Visiting Professor at the Surey University (UK) and Associate Consultant at Amplios Consultants Pte Ltd (Singapore).



Assoc. Prof. Nigel graduated from The University of Sheffield with a Master Degree in advanced physical metallurgy and from Derby University with a post-graduate diploma in corrosion science and technology. He worked in the welding and fabrication industry for 10 years before joining Rolls-Royce where he spent 20 years in the nuclear submarine division and further 3 years in the aero-engine division as a metallurgist/ failure investigator. This also included working offshore on titanium heat exchangers in the North Sea for six years. Since retirement from RR, he has worked on broad range of projects for Intertek Services Ltd in the UK as a failure investigator including aerospace and railway track components. He is a Director of MTIS Sdn. Bhd. a subsidiary of Norimax Sdn. Bhd where he has worked mainly on offshore component failures. Nigel is also a part-time lecturer at Nottingham University Malaysia Campus giving advice on industrial design and manufacturing.

**For more information, please contact:**

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