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**Register today!!**

# IMM COATING FINGERPRINT FOUNDATION COURSE

**Date : 10<sup>th</sup> Sept 2015 / Thursday**

**Venue: Holiday Inn Glenmarie, Shah Alam, Selangor**

**Time: 9.00 am to 5.00 pm**

**Introductory  
Course Fees  
Discount Up to 50%**

**ENQUIRIES SHALL BE DIRECTED TO:-**

Ms. Ainil Fidrah Mohd Ghazali,  
mobile tel: (+6)019-3853605,  
email: [ainil@mte.com.my](mailto:ainil@mte.com.my)



Background of Coating Fingerprint Certificate and all related articles  
can be accessed on

[http://iommm.org.my/coating-fingerprint-certificate/  
background-of-coating-fingerprint-certificate/](http://iommm.org.my/coating-fingerprint-certificate/background-of-coating-fingerprint-certificate/)

For the application as IMM member and membership fees and details of IMM courses,  
Please visit [www.iommm.org.my](http://www.iommm.org.my)

# The first-of-its-kind one-day course on “Coating Fingerprint Certificate” in the WORLD

## Course details

- Duration : 1 Day
- Frequency of course : Half-yearly
  - ◊ **1st Course** : 10<sup>th</sup> Sept 2015 (Thurs)
  - ◊ **2nd Course** : 19<sup>th</sup> May 2016 (Thurs)
- Minimum candidate per course : 10 pax
- Registration and full payment for the course must be made at least 2 months prior to the course date.
- The IMM membership fees for another 3 years shall be in accordance to the membership grade of the certificate holder ([www.iomm.org.my](http://www.iomm.org.my)).
- **Disclaimer:** All dates are subject to change. Please contact Materials Technology Education Sdn. Bhd. for the latest schedule and information.

## Pre-Requisites

No previous experience required.

## Certification

Upon completion of this course, graduates will be issued an “IMM Coating Fingerprint Foundation Certificate” with validity of 3 years.

## Who Should Attend

This course has been designed specifically for persons carrying out assessment of quality control and quality assurance on coating systems, or those on the behalf of their employer, such as quality assurance managers and supervisors for coating contractors, representatives of coating suppliers, end-client project supervisors and QA/QC personnel, analyst of testing laboratories, coating inspectors, paint factory chemists and assistant chemists, paint QC technicians etc. It will also be of interest to estimators, steel fabricators and structural engineers involved in designing or maintaining steel structures.

This course will equip the graduate with the knowledge and skills to demand sufficient authority for his/her decisions to be recognized by both client and contractor, in the preparation of **Coating Fingerprint Certificate** for third party or laboratories.

## Background

This one-day “IMM Coating Fingerprint Foundation Course” is the pre-requisite for candidates who wish to be certified as an “IMM Certified Coating Fingerprint Quality Controller”.

The oil & gas & petrochemical industries will implement the requirement for **Coating Fingerprint Certificates** (equivalent to the Mill Certificate for metals) for all protective coatings and paints supplied to the oil & gas & petrochemical operators. As such, paint manufacturers will be required to engage an “IMM Certified Coating Fingerprint Quality Controller” to conduct FTIR tests and all associated chemical and corrosion tests to produce a **Coating Fingerprint Certificate**. In addition, the QA/QC coating inspectors, coating supervisors, clients’ site QA/QC representatives, third-party QA/QC authorities’ representatives, third-party laboratories’ chemists/technicians, and management personnel will be required to have a clear appreciation and understanding of the Coating Fingerprinting procedures and technologies applied.

This course aims to formalize or improve the skills of carrying out basic quality control tests using Fourier Transform Infra-Red (FTIR) method associated with protective coatings. This course is the pre-requisites course for eligibility to become an “IMM Certified Coating Fingerprint Quality Controller” (a 2-day classroom & laboratory course, where there will be an exam consisting of 100 objective questions to be answered within 3 hours at the end of the course). Each participant who completes this one-day course will be awarded with a Foundation Certificate. The course uses formal lectures, demonstrations, and extensive practical exercises as teaching methods.

This one-day course offers elementary theoretical knowledge in FTIR analysis and practical implementation of quality control and quality assurance for managers, engineers, inspectors and supervisors. It enables graduates to manage coatings inspection project that requires the fulfillment of **Coating Fingerprint Certificate** and codes of practice.

In this one-day course, the first half of it will consist theoretical lectures on FTIR method and later followed by demonstration of the FTIR equipment later in the day to provide participants with a better understanding of the mechanics of FTIR testing, appreciation of the strengths and limitations of FTIR method, interpretation and analysis of FTIR results, and first-hand experience of running the FTIR testing with the actual FTIR equipment in the classroom.

## Course Content

1. Coating Fingerprint Certificate
2. Sampling standards of materials
3. FTIR analysis standard for protective coatings
4. Basic introduction to FTIR
5. Basic application of a FTIR software
6. Generation of reference FTIR spectrum
7. Estimation of degree of similarity in samples
8. Rejection and acceptance for samples
9. Dos and Don'ts in FTIR analysis
10. Running samples using ATR accessories
11. Interpretation of FTIR test results
12. Quality control tools in a FTIR software
13. Data analysis using a commercial FTIR software

## Language

This course will be conducted in English.

## INTRODUCTORY Course Fees (50% off)

Fee per member	IMM Member + 6% GST	Non - Member + 6% GST
Early bird fee	RM 600 300 + RM 18	RM 700 350 + RM 21
Usual fee	RM 700 350 + RM 21	RM 800 400 + RM 24

Note: 3-year IMM membership fee is to be paid in advance upon registration of this course.

Example:

	IMM member & early bird	6% GST	Total
Fee per member	RM 300	RM 18	RM 318
IMM - Entrance fee	RM 20	-	RM 140
- Annual Membership (RM 40 X 3years)	RM 120		
		Total	RM 458

## Other related IMM courses

1. **IMM Certified Coating Fingerprint Quality Controller** (a 2-day classroom & laboratory course, with an exam consisting of 100 multiple-choice questions to be answered within 3 hours at the end of the course)
2. **IMM Certified Coating Fingerprint Trainer** (IMM course trainees will be certified after undergoing a 1-day Train-the-Trainers appreciation workshop).
3. **Refresher Course of IMM Certified Coating Fingerprint Quality Controller** (a 1-day classroom & laboratory course, with an exam consisting of 20 multiple-choice questions to be answered within 30 mins at the end of the course).

## TRAINER PROFILES



Assoc. Prof. Dr. Melissa Chan Chin Han is working at Universiti Teknologi MARA, Malaysia. Her research interest is devoted to physical properties of macromolecules. She was appointed as Visiting Scientist at China University of Petroleum, Beijing, China (2011 – 2012), as Chair Professor on Advances in Hybrid Materials at Mahatma Gandhi University, Kottayam, India (2014), National Representative (Malaysia) of International Union of Pure and Applied Chemistry (IUPAC) for Polymer Division (2014-2015) etc. She has been one of the editors of Malaysian Journal of Chemistry, Materials Mind of Institute of Materials, Malaysia and books published by Royal Society of Chemistry (2013) and Apple Academic Press (2014) (distributed by CRC Press). She is the advisor of the IMM Task Force on Coatings Fingerprinting since 2013.



Joe Set is currently the Senior Applications Specialist for the Material Science Group in Research Instruments. Having worked in pre-sale and post-sale support, her area of expertise includes Molecular Spectroscopy and High Performance Liquid Chromatography. Joe has worked with systems and applications in the past 9 years with renowned manufacturers such as Thermo Scientific Nicolet, TA Instruments, Waters, Agilent & Shimadzu having covered markets including semiconductors, environment, food quality and safety, energy and chemical, oil and gas, polymer and coatings, QA&QC, academic, biomedical, forensics and toxicology. Joe holds a degree in Bachelor of Science in Chemistry & Biology from Campbell University of North Caroline, USA and obtained her Master's of Science in Analytical Chemistry & Instrumental Analysis in 2011 from the University of Malaya.



Dr. Chew Kong Chin heads the Beckers Group's Long Term Development Asia laboratory based in Malaysia focusing on coil coatings. He entered the polymer industry upon obtaining a PhD from Imperial College London, and has acquainted himself with radiation curable resins, plastisols, static dissipative polymers and conductive compounds. He is the committee member of the IMM Task Force on Coatings Fingerprinting since 2014



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Bigger & Better**



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**Re-introducing IMM Welding  
Inspector Certification Course**

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*JWES is an organization accredited by Japan National Accreditation Board (JNAB) to certify personnel according to the requirement of ISO 17024*

The Institute of Materials Malaysia (IMM) and the Malaysian Welding Society (MWJS) in collaboration with the Japan Welding Engineering Society (JWES) will conduct certification courses and examinations leading to the status of certified **ASSOCIATE WELDING ENGINEER (AWE) & WELDING ENGINEER (WE) on 10th—17th August 2015, Kuala Lumpur**

The objective of the course is to provide training, knowledge and examination leading to the Welding Engineer Certification in accordance to **JWES— WES8013:2008 Standard of Certification of Welding Coordination Personnel** and **ISO 14731 Welding Coordination Tasks and Responsibilities.**

## ASSOCIATE WELDING ENGINEER (AWE)

### Target participants

Engineers who are in charge of welding engineers /teaching welding engineering/inspection of welded products

### Course Fee

Course & Exam	: RM 4,500.00
6% GST	: RM 270.00
5 years IMM Membership	: RM 220.00
* Entrance Fee : RM20.00	
* Annual Memberships: RM40/year x 5 years	
1 year PRIMOS	: <u>RM 150.00</u>

**TOTAL : RM 5,140.00**

## WELDING ENGINEER (WE)

### Target participants

Welding Engineers who meet any of the following requirements:

1. Have passed AWE examination
2. Have experience in attending a past AWE training course
3. Be in charge of welding engineering/inspection of welded products

### Course Fee

Course & Exam	: RM 5,500.00
6% GST	: RM 330.00
5 years IMM Membership	: RM 220.00
* Entrance Fee : RM20.00	
* Annual Memberships: RM40/year x 5 years	
1 year PRIMOS	: <u>RM 150.00</u>

**TOTAL : RM 6,200.00**



Please call us for more information

**Materials Technology Education Sdn Bhd**

10-1 Jalan Bandar 3, Pusat Bandar Puchong, 47160 Puchong, Selangor, Malaysia.

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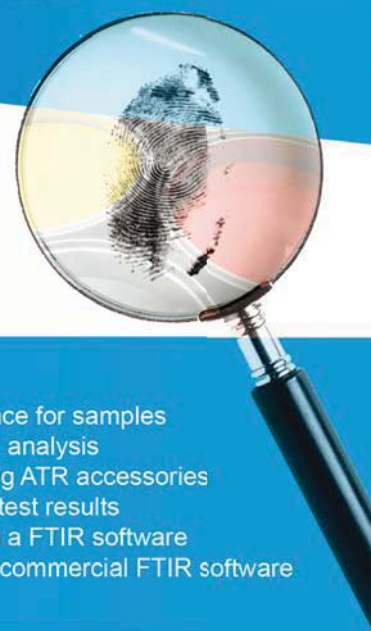
**Register Today!!**

# IMM COATINGS FINGERPRINT FOUNDATION C O U R S E

**Date : 25<sup>th</sup> January 2016 / Monday**

**Venue : Four Points Sheraton Hotel, Bandar Puteri,  
Puchong, Selangor**

**Time : 9.00 am to 5.00 pm**



## Course Content

- |   |  |
|---|--|
| 1. Coating Fingerprint Certificate                | 8. Rejection and acceptance for samples            |
| 2. Sampling standards of materials                | 9. Dos and Don'ts in FTIR analysis                 |
| 3. FTIR analysis standard for protective coatings | 10. Running samples using ATR accessories          |
| 4. Basic introduction to FTIR                     | 11. Interpretation of FTIR test results            |
| 5. Basic application of a FTIR software           | 12. Quality control tools in a FTIR software       |
| 6. Generation of reference FTIR spectrum          | 13. Data analysis using a commercial FTIR software |
| 7. Estimation of degree of similarity in samples  |  |

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Note: 3-year IMM membership fee is to be paid in advance upon registration of this course

### FOR ENQUIRIES PLEASE CONTACT

**Ms. Ainil Fidrah Mohd Ghazali**

**Mobile tel: (+6)019-385 3605, Email: ainil@mte.com.my**

For more details on Coating Fingerprint Certificate and all related information please visit :

**<http://iommm.org.my/coating-fingerprint-certificate/background-of-coating-fingerprint-certificate/>**

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## Materials Mind Photography Competition Winning Photograph Issue 12



Congratulations to Mr. Chee Wei Kit from Chemistry Department, Faculty of Science, Universiti Putra Malaysia for his captivating photo. He won RM 500.00 and a certificate.

### **Title: Graphene bamboo forest**

#### **Photograph description:**

The image illustrates formation of graphene “bamboo”, as a result of electropolymerization of polypyrrole/reduced graphene oxide on a woven carbon cloth at which uniform layers of the nanocomposite enveloped the carbon fibers (diameter  $\sim 10 \mu\text{m}$ ) completely. The highlighted “green leaves” indicated the graphene sheets.