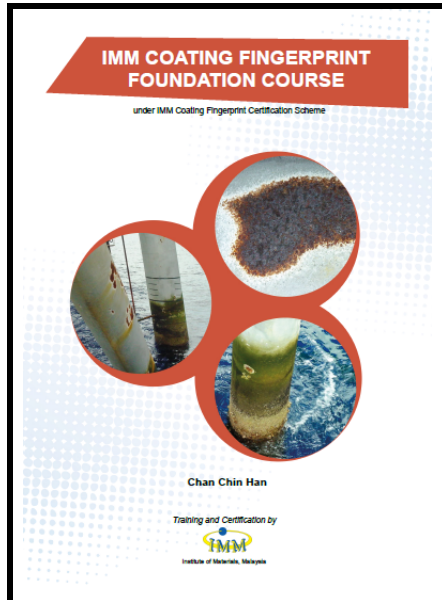




IMM Coating Fingerprint Foundation Course



The paint & coatings industries have initiated the requirement for a polymeric **Coating Fingerprint Certificate** similar to a Mill Certificate for metals) to improve quality assurance. Fourier Transform Infra-Red (FTIR) method has been selected as the appropriate method to provide the fingerprinting requirement in addition to other physical & chemical tests which are regularly conducted by the paint & coating manufacturers.

This 1 day course will consist of a half-day theory lectures on the FTIR method followed by half-day of demonstration of the FTIR equipment to provide participants to understand the mechanics of the FTIR testing, appreciation of the strengths and limitations of FTIR method, interpretation and analysis of FTIR results, and a first-hand experience of running the FTIR testing with the actual FTIR equipment in the classroom.

Who should attend

Anyone interested in the topic and their applications including graduates with bachelor degree through Ph.D level, researchers, chemists, engineers, physicists, or technicians from academic and industry who work in or are beginning to work in the field. Managers in this industry will greatly benefit from this in-depth lecture course.

Course details

- Duration : 1 Day
- Frequency of course : Twice a year
- Minimum candidate per course : 15 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 5 years shall be in accordance to the membership grade of the certificate holder (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-Requisite

No previous experience required.



Institute of Materials, Malaysia

Certification

Upon completion of this course, graduates will be issued an “IMM Coating Fingerprint Foundation Certificate” with validity of 5 years.

Language

This course will be conducted in English.

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 for samples
- (8) Rejection and acceptance of 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

Synopsis of the book

This book serves as one of the course materials for certified courses under the IMM Coating Fingerprint Certification Scheme - the first-of-its-kind courses on “Coating Fingerprint Certificate” in the world. This is the first source to consolidate the information on the practical guide on execution of Coating Fingerprinting Certificate for protective coatings. It provides a one-stop reference for the QA/QC personnel of paint manufacturers, 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 who have experience in QA/QC procedure for polymeric coatings.