



INSTITUTE OF MATERIAL, MALAYSIA

IMM Thermal Insulation Certification Scheme

IMM Certified Thermal Insulation Installer

Code: TII

HRDF claimable

This program is meant for training and upgrading individuals in thermal insulation materials applications as well as the trade of sheet metal shop fabrication plus field installations.

Reference standards (reference used shall refer to the latest published document):

- TBA

Who should apply

The program is suitable for those persons who wish to begin a career in this field but have little or no experience and for insulation engineers, specifier, technicians, supervisor and inspector who desire to broaden their knowledge in the usage and technique of thermal insulation and sheet metal application.

Objectives

It aims to provide participants with the knowledge and skills to carry out insulation works efficiently and effectively with the clear understanding of the following:

- Types of thermal insulation and sheet metal materials specified by the vendors and clients in insulation specifications.
- Equipment and piping systems components are commonly seen in the oil and gas industries.
- Tools and aids usage during the preparation and field installation of thermal insulation materials.
- Sheet metal equipment and tools used during the layouts, cutting, fabrication and field installation works.
- Standard insulation calculation

Examination topics

1. Introduction to insulating and sheet metal trade
2. Equipment and piping system components in the petrochemical, oil & gas and energy industries
3. Types of thermal insulation materials for hot, cold and dual temperature services
4. Types of sheet metal materials
5. Equipment and tools used in the insulating and sheet metal trade
6. Basic safety for insulating and sheet metal trade
7. Plan and isometric piping drawings
8. Pattern layout/fabrication/field installation
 - Pipe and elbow
 - Equal and unequal branch and header
 - Concentric and eccentric reducer
 - Valve
 - Flange
 - Strainer
 - Elbow Trunnion

Examination format

TBA

Examination duration

TBA

Examination fee

As specified on the IMM website.

Candidate's criteria

Candidate should have

- Minimum academic qualification - SPM or equivalent*

*Candidate fulfills the minimum academic qualification but without field experience in thermal insulation is considered as a candidate without experience.

Pre-requisite training

A candidate without experience is required to attend IMM approved/recognized training course which prepares and provides comprehensive guidance and practice aligned to the topics covered in the examination.

A candidate with experience is encouraged to attend IMM approved/recognized training course.

Criteria for certification

TBA

Certificate awarded

IMM Certified Thermal Insulation Installer

Validity period of certificate

5 years

Re-sit of examination

A candidate who had failed in one or more of the examination parts can apply to re-sit for the failed component(s) of the examination within a year from the date of the first examination. The candidate shall have to pay the full examination fee for the re-sit and without the need to attend any pre-requisite training course.

Information on re-certification

6 months prior to the expiry of certification (at the end of the 5th year of certification), the candidate can apply for re-certification for another 5 years by

- providing proof to IMM that he/she has been employed in a related profession; and
- attending the relevant Refresher Course for certification (if any).

Prior to the expiry of the 5-year re-certification (at the end of the 10th year of certification), the candidate can continue to be certified for a further 5-year period by

- providing proof to IMM that he/she has been employed in a related profession; and
- attending the relevant Refresher Course for certification (if any).

The candidate must re-sit the certification examination if he/she has been out of the profession for more than 18 months continuously during the 5-year certification or re-certification period.