

# HOW TO APPLY

SCAN ME



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Organised by



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA



INSTITUTE FOR OIL & GAS

Accredited by



ATP:



## A PROFESSIONAL CERTIFICATE COURSE IN GAS DISTRIBUTION

## FOR GAS ENGINEER AND GAS ENGINEERING SUPERVISOR

NATURAL GAS AND LPG PIPING SYSTEM

# NEW

MODULAR PACKAGE

HRDF CLAIMABLE  
& CPD FROM BEM & MBOT

UTM-MPRC IFOG

07-553 6013

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# GAS ENGINEER AND GAS ENGINEERING SUPERVISOR

## GAS SUPPLY REGULATION A997 (Gas Supply Act 1993)

"Every gas installation shall be supervised by a competent person employed by the Gas Contractor who is carrying out the installation work"

### COURSE INTRODUCTION

A unique course dedicated to gas engineering personnel. The only course of its kind in South East Asia. The most practical to gas engineering applications and theories. Covering both Natural Gas and LPG operation system.

### COURSE OBJECTIVE

To train professionals and engineers in gas engineering and related technology particularly on low and medium pressure reticulation systems (LPG and Natural Gas) for the housing. Commercial and industrial areas in accordance to the Malaysian Gas Supply Act (1993) and Gas Supply Regulations (1997).

### WHO SHOULD ATTEND

Consulting Engineers, Government and State Company Engineers, Gas Company Engineers, Gas Distribution Company Directors, Managers, Supervisors and relevant personnel.

### ENTRY REQUIREMENT

The minimum entry requirement is a Diploma or Degree in any accredited engineering discipline from recognized institution.

### COURSE FEATURE

Conducted since 1986. More than 100 companies had successfully participated. Highly practical to suit with relevant gas installation practices.

Lectures will be delivered by well qualified academicians, professionals and personnel from authority bodies that embody broad experiences from the gas industry.

Syllabus and curriculum constantly reviewed to meet industry requirements. Over 100 lecture hours with comprehensive lecture materials.

Course will be conducted on part time basis and full time basis for in-house training. Language conducted in Bahasa Malaysia and English.

### SITE VISIT

Site visit to the gas installations and other relevant industries in Klang Valley or other nearby areas will be arranged. Candidates participation in this activity is regarded as compulsory.

### AWARD

Certificate will be awarded to the participant upon completion of the assessment. The certificate will be issued by Universiti Teknologi Malaysia upon the recommendation of the panel of assessors. Qualified successful candidates are eligible to apply for competency professional interview from the Energy Commission (Subjected to Energy Commission approval) as stipulated in the 'Malaysia Gas Supply Acts 1993 and Gas Supply Regulations 1997.

### COURSE MODULAR FORMAT

Courses can be taken modularly, or alternatively by its comprehensive form (5 Modular Set). Comprehensive mode if attended would allow participants to enjoy substantial discounted fees.

#### Module 1 : Gas Regulation, Standard and Piping System

##### Synopsis:

Module 1 will introduce participants with broad perspective of the downstream gas operation including the general overview of the industry, piping system, the governing regulations and standards. The basic fundamental of gas operation system will be introduced and discussed. The governing acts, regulations and standards will be closely delivered to provide participants with the regulation and governing issues in the downstream operation.

##### Course Content:

SM1 : Gas Industry Overview  
SM2 : Act and Standard  
SM3 : Material and Component  
SM4 : Pipe and Jointing  
SM5 : Corrosion

##### Assessment:

1 PAPER EXAMINATION  
PAPER 1 : SM2, SM3, SM4, SM5

#### Module 2 : Burner System and Combustion

##### Synopsis:

Module 2 introduces participants with the fundamental principles of gas properties and its thermodynamic behaviour. The applied knowledge of combustion system and burner conversion will be accordingly introduced.

##### Course Content:

SM1 : Properties and Thermodynamics  
SM2 : Combustion, Burner Conversion, Venting System

##### Assessment:

1 PAPER EXAMINATION  
PAPER 2: SM1, SM2

#### Module 3 : Gas Commissioning and Operation System

##### Synopsis:

This package offer fundamental and advanced knowledge on the gas commissioning and operation of gas transmission and distribution system mainly focussing on the operation principles, safety and security of gas pipelines and its relevant regulations.

##### Course Content:

SM1 : Testing & Commissioning  
SM2 : Operation and Maintenance LPG and NG system  
SM3 : Site Visit

##### Assessment:

1 PAPERS EXAMINATION  
PAPER 3 : SM1, SM2

#### Module 4 : Gas Networking and Storage System

##### Synopsis:

Module 4 is focussing on the aspects for integrated gas pipeline networking and introducing the governing principles of gas storage system globally employed.

##### Course Content:

SM1 : Gas Metering  
SM2 : Pressure Regulation  
SM3 : Gas Networking  
SM4 : System Storage

##### Assessment:

1 PAPER EXAMINATION AND 1 PROJECT  
PAPER 4 : SM1, SM2  
PROJECT PRE-ASSESSMENT 1 : SM3, SM4

#### Module 5 : Project Design and Implementation

##### Synopsis:

Project design and Implementation package is offered to compliment the overall understanding of the downstream gas operation. This course will provide participant with tools and knowledge to incorporate theoretical understanding and principles of gas distribution into project implementation to be integrated and be submitted as a project paper

##### Course Content:

Project Implementation  
Project Design Review  
Design Guide and Workshop

##### Assessment:

PROJECT WORKSHOP AND EVALUATION - FINAL PROJECT SUBMISSION (BINDED AND SOFTCOPY)

