# **HOW TO APPLY**





For further information, please contact:

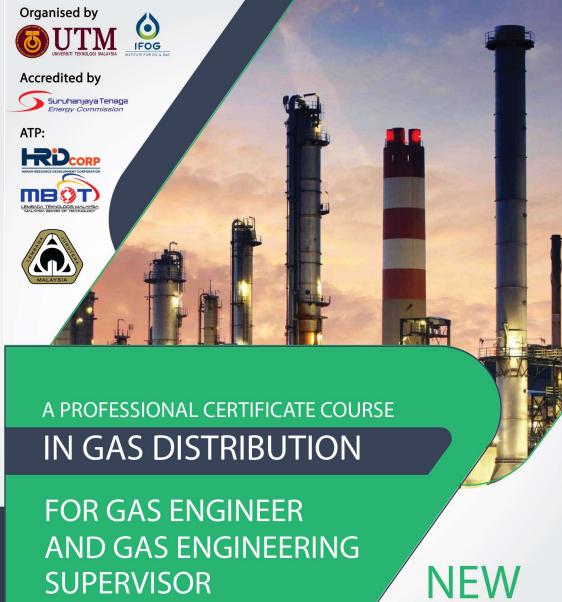
**UTM-MPRC** Institute for Oil and Gas 81310 UNIVERSITI TEKNOLOGI MALAYSIA Skudai, Johor Tel: 07-5536013 / Fax: 07-5545667

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NATURAL GAS AND LPG PIPING SYSTEM

**MODULAR PACKAGE** 

HRDF CLAIMABLE & CPD FROM BEM & MBOT

UTM-MPRC IFOG







# GAS ENGINEER AND GAS ENGINEERING SUPERVISOR

# GAS SUPPLY REGULATION A997 (Gas Supply Act 1993)

"Every gas installation shall be surpervised 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 embodie broad experiences from the gas industry.

Syllibus 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.

Assessment:

1 PAPER EXAMINATION

PAPER 1: SM2, SM3, SM4, SM5

#### Course Content:

SM1 : Gas Industry Overview

SM2 : Act and Standard SM3 : Material and

Component SM4: Pipe and Jointing SM5: Corrosion

## 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:

### Assessment: 1 PAPER EXAMINATION AND 1

SM1 : Gas Metering 1 PAPER EXA SM2 : Pressure PROJECT

PROJECT

Regulation PAPER 4 : SM1,SM2

SM3 : Gas Networking PROJECT PRE-ASSESSMENT 1 :

SM4: System Storage 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)

