

## ABOUT MALAYSIAN TECHNICAL COOPERATION PROGRAMME (MTCP)

The MTCP, which was established in 1980, aims at providing technical assistance to participating developing countries. The program consolidates various forms of technical cooperation in areas where Malaysia has the experience and the expertise.

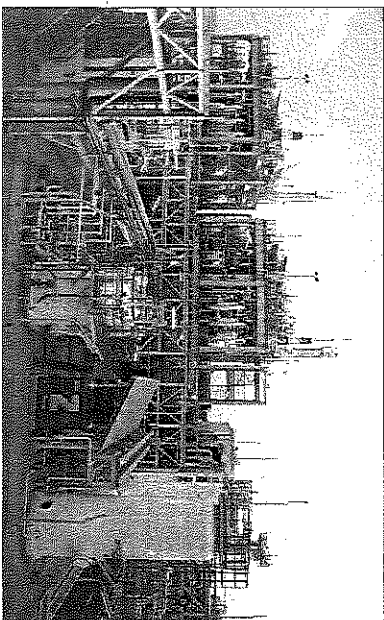
More than 100 MTCP Programmes offered by more than 79 MTCP training institutions, many of which are centers of excellence for training. MTCP has gained more than 30,600 participants from 142 countries have benefited from the various programs offered under the MTCP.

### Objectives of MTCP

- ◆ To share development experience with other countries;
- ◆ To strengthen bilateral relations between Malaysia and other developing countries;
- ◆ To promote South-South Cooperation (SSC);
- ◆ To promote technical cooperation among developing countries (TCD/C).

### Programs offered by the MTCP

- ◆ Short-term specialized courses
- ◆ Long-term courses (Scholarships)
- ◆ Study visits and attachments
- ◆ Advisory services of experts
- ◆ Socio-economic development projects
- ◆ Supply of equipment and materials



## About INSTEP

*Institut Teknologi Petroleum PETRONAS* (PETRONAS Petroleum Technology Institute) or better known as INSTEP, offers a multi-faceted learning experience. With over 30 years of oil and gas technical training capability, INSTEP is a state-of-the-art technical training institution, built on a 200-acre land by the shore of South China Sea on the East Coast of Malaysia. With the launch of the latest training facilities, the Upstream and Downstream Training Plant (UDTP) and Liquid Metering Training Skid (LMTS), INSTEP will definitely bring a total innovative learning approach.

With accreditations and recognitions from Offshore Petroleum Industry Training Organisation (OPITO), Business and Technology Education Council (BTEC), International ElectroTechnical Commissions System for Certification to Equipment for Use in Explosive Atmosphere (IECEX), Energy Commission (EC), Department of Occupational Safety & Health (DOSH), *Jabatan Alam Sekitar* (Environmental Department) as well as the Ministry of Education Malaysia, INSTEP is approaching its goal in becoming the training center of choice.

**INSTITUT TEKNOLOGI PETROLEUM PETRONAS**  
**PETRONAS Technical Training Sdn Bhd**  
Lot 9764, Batu Rakit, 21020 Kuala Nerus  
Terengganu Darul Iman, Malaysia  
Telephone: +609 668 6000 | Facsimile: +609 668 6288  
Website: [www.instep.my](http://www.instep.my)  
Email: [instep@petronas.com.my](mailto:instep@petronas.com.my)

### Contact Details

For further enquiries, applicants can either approach their respective Malaysian official representative or email to the following address:

**A Samad Yaakub**  
Account Manager

Email: [asamad\\_yaakub@petronas.com.my](mailto:asamad_yaakub@petronas.com.my)  
Tel: +609 668 6319 / +6012 9879295  
Website : [www.instep.my](http://www.instep.my)



**MALAYSIAN TECHNICAL COOPERATION PROGRAMME (MTCP)**

**8 - 21 August 2016**  
**(14 days)**

## Basic Training for Plant Operation

*Brought to you by*

**INSTEP®**  
INSTITUT TEKNOLOGI PETROLEUM PETRONAS

### Application Guidelines

Application should be made using the prescribed MTCP forms available at  
[https://mtcpcoms.kln.gov.my/mtcpcoms/online/1st\\_course](https://mtcpcoms.kln.gov.my/mtcpcoms/online/1st_course)

**Application deadline : 05 May 2016**

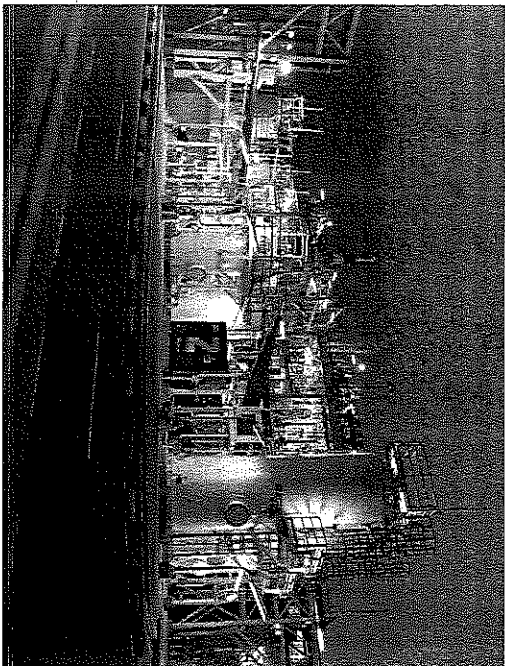
### About the Course

The **Basic Training for Plant Operation** is designed for those who have minimal knowledge of plant operation. It describes in detail the fundamental issues that must be addressed by plant personnel in order to have a safe, efficient, and effective plant operation. The learning methodology covered both theory and practical practices in upstream and downstream plant.

### Objectives

By the end of the course, participants are expected to be able to;

1. Enrich their knowledge on upstream & downstream plant operation
2. Explain the formation of petroleum reservoirs, basic geological considerations and the exploration process
3. Share standard operating procedures for downstream plant
4. Apply understanding of asset maintenance and downstream supply chain activities
5. Enlarge their networking in oil & gas industry



### Contents

#### Introduction to Upstream Industry

- ◆ Exploration, Appraisal and Drilling Activities
- ◆ Reservoir Engineering and Field Development Planning
- ◆ Production of Oil and Gas
- ◆ Production Operations and Maintenance
- ◆ Decommissioning of Oil and Gas Installations

#### Introduction to Downstream Industry

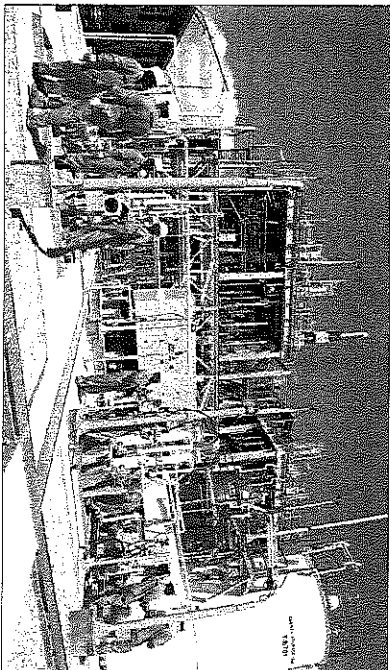
- ◆ Crude Oil Refining Technology & Processes
- ◆ Gas Processing Technology/LNG
- ◆ Petrochemical Technology

#### Upstream and Downstream Plant Familiarization

- ◆ Typical Process Operation Diagram
- ◆ Plant Start-up & Plant Shut Down Activities
- ◆ Plant HSE and Inspection
- ◆ Product Sampling and Analysis

#### Plant Utility Operation

- ◆ Steam Generation
- ◆ Cooling Water System
- ◆ Air Compression System
- ◆ Treated Water System



**Target Participants**  
Senior Executives, Engineers in Oil, Gas and Petrochemicals Industry

**Facilitator**  
This course will be facilitated by experienced trainers in Oil, Gas and Petrochemicals Industry

### Fellowship / Scholarship

The terms and conditions of scholarship/fellowship awards under the MTCF at INSTEP include:

#### Accommodation and meals

Food and lodging are provided by INSTEP.

#### Fares

A return air ticket from the capital city of the participant country to Kuala Lumpur on economy class is provided (except for some countries which require to bear their own air fare; please refer to the MTCF website for further details).

#### Visa and Vaccination

Expenditures such as visa and all visa-related fees, airport tax/airport user's charge, transit insurance, excess luggage, travel tax, transit fees, domestic passenger terminal fees et cetera are to be borne by the recipients.

#### Other Information

Travelers from certain countries in South America and Africa are required to produce a Yellow Fever Vaccination Certificate at the entry point in Malaysia. For more information please refer to website:  
<http://www.jmli.gov.my/index.php/en/main-services/visa/visa-requirement-by-country>.

This also applies to vaccination prior to their travel to Malaysia.

#### Course Fees

All course fees are borne by the Malaysian Government.

#### Medical and Dental Treatment

Candidates should be certified medically and physically fit to participate in this program. During participants' stay in Malaysia, all medical and dental expenses in the government hospital/clinic are at the cost of the Malaysian Government. Dental treatment however, is restricted to extraction and filling which must be carried out in government hospitals/clinics only.

#### General Conditions of Award

Participants shall conduct themselves at all times in a manner compatible to their responsibilities as MTCF scholarship holders and abide by the rules and regulations of the training institution.

The award may be terminated at any time due to unsatisfactory conducts, breach of the conditions of the award or failure to make satisfactory progress.

Participants are not allowed to bring along their spouses for the duration of the course.