



**APPLIED TECHNOLOGY**  
GROUP OF COMPANIES  
Australia • New Zealand • Hong Kong • Malaysia • Singapore

**Applied Technology Group Sdn Bhd (1012178-W)**

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## Course On

# CENTRIFUGAL PUMPS

Date : 16<sup>th</sup> November 2016 (Wednesday)  
Time : 9.00 am to 5.00 pm  
Venue : Armada Hotel, Petaling Jaya

## COURSE OVERVIEW

The 1-Day intensive course focuses on :

- The Theoretical and Practical Aspects of CENTRIFUGAL PUMPS

The course highlights :

- Pump theory and the performance characteristics of centrifugal pump.
- The understanding of cavitation and the calculation of net positive suction head.
- Pump selection and applications of centrifugal pumps.
- The suction line requirements and the discharge line requirements.
- Pump maintenance and trouble shooting.

Work examples & calculations are done to ensure participants would have a better understanding of the operation and application of CENTRIFUGAL PUMPS.

## LEARNING OUTCOME/ BENEFITS OF COURSE

This course will provide the participants with the followings benefits:

- Understanding the pump performance characteristics and the importance of velocity head, the discharge head and the suction lift in the operation of pump.
- Knowing the importance of suction line requirements and the discharge line requirements in pump application.
- Understanding the significance of pipe diameter and velocity in the application of pump.
- Learning how to check the cavitation in pump operation and the calculation of Net Positive Suction Head which is related to cavitation.
- Learning the pump loss calculation and the approaches in reducing the energy (friction) loss in the pump operation.
- Conducting the proper pump maintenance and diagnosis of centrifugal pump troubles.

### Special Discount

Early Bird Discount

RM50

*Register for course and pay before 26<sup>th</sup> September 2016*

## SPEAKER PROFILE



**Dr. Ling Foon Fatt**

**Dr. Ling Foon Fatt** has extensive experience in Education, R & D, Training, Consultancy and Manufacturing, having held various posts and positions with the following organizations:

1. Associate Professor, Mechanical Engineering Department, University of Malaya (1981 - 1994).
2. Technical Advisor, OYL Industries Bhd.(1987-1994)
3. Chief Executive Officer, TOPAIRE Sdn. Bhd.(1994-1996)
4. Senior Group General Manager, Top Group Holdings Bhd.
5. Director of a Consulting Engineering Firm.
6. Engineering & Training Advisor, UMJ Air-Conditioning Sdn. Bhd.
7. Member of International Editorial Advisory Board, Journal of Energy, Heat and Mass Transfer.(1988-1994)

Dr. Ling has been the Principal Interviewer for the Examination of Corporate Membership of the Institution of Engineers, Malaysia (1976 - 1983); Chairman, Sub-Committee in Qualification Assessment, The Institution of Engineers, Malaysia (1981- 1983); and The Council Member of the Institution of Engineers, Malaysia (1981/82 - 1983/84).

He was a member of the Steering Committee on Training and Entrepreneur Development, Federation of Malaysia Manufacturers (1992 - 1996).

Dr. Ling has supervised more than 80 engineering thesis projects, and published over 50 technical papers in International and regional journals.

Dr. Ling has conducted over 300 public courses and has written 20 work books.

Over 3000 engineers, managers, executives, supervisors and technicians have successfully attended the public courses conducted by Dr Ling. The participants are from various industries of Manufacturing, Services, Education, Oil & Gas, Construction and Commerce.

Dr. Ling has conducted in-house training for over 30 companies and organizations.

## WHO SHOULD ATTEND

This course is designed for:

- Maintenance Engineers/Managers/Executives
- Consulting Engineers
- Service Engineers
- M&E Contractors
- Building/Complex Owners
- Chargemen & Technical Executives
- Technicians who deal with PUMPS and
- New Engineers

# CENTRIFUGAL PUMPS

## COURSE SCHEDULE

### DAY 1

|                       |   |
|-----------------------|---|
| 9.00am - 10.30am      | <b>Session 1: Pump Theory</b> <ul style="list-style-type: none"><li>• Static Head</li><li>• Velocity Head</li><li>• Suction Lift</li><li>• Discharge Head</li><li>• Energy Added by Pump</li><li>• Power and Efficiency Calculations</li><li>• Work Examples</li></ul>        |
| 10.30am - 10.50am     | <i>MORNING TEA BREAK</i>  |
| 10.50am - 12.30pm     | <b>Session 2: Centrifugal Pumps</b> <ul style="list-style-type: none"><li>• Performance Characteristics</li><li>• Similarity Rules</li><li>• Cavitation</li><li>• Net Positive Suction Head</li><li>• Pump Selection</li><li>• Applications</li><li>• Work Examples</li></ul> |
| 12.30pm - 2.00pm      | <i>LUNCH</i>  |
| 2.00pm - 3.30pm       | <b>Session 3: Pump Operation</b> <ul style="list-style-type: none"><li>• Suction Line Requirements</li><li>• Discharge Line Requirements</li><li>• Pumps in Parallel</li><li>• Pumps in Series</li><li>• Bearings</li><li>• Pump Shafts</li><li>• Pump Sleeves</li></ul>      |
| 3.30pm - 3.45pm       | <i>TEA BREAK</i>  |
| 3.45pm - 5.00pm       | <b>Session 4: Pump Maintenance &amp; Troubleshooting</b>  |
| <i>END OF DAY ONE</i> |   |



### COURSE REGISTRATION FORM

|  |
|--|
| <b>Course title:</b><br><b>CENTRIFUGAL PUMPS</b> |
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(✓ Please tick)

|                          |   |
|--------------------------|---|
| <input type="checkbox"/> | <b>16<sup>th</sup> November, 2016 (Wednesday)</b><br><i>Petaling Jaya, Armada Hotel</i> |
|--------------------------|---|

#### Company Information

|                  |  |
|------------------|--|
| Company:         |  |
| Address:         |  |
| State/ Province: |  |
| Zip/Postal Code: |  |
| Country:         |  |
| Contact Person:  |  |
| Email:           |  |
| Phone:           |  |

#### Attendee Information

|                |  |
|----------------|--|
| Name (1)       |  |
| Job title:     |  |
| E-mail:        |  |
| Mobile/Tel No: |  |
| Name (2)       |  |
| Job title:     |  |
| E-mail:        |  |
| Mobile/Tel No: |  |
| Name (3)       |  |
| Job title:     |  |
| E-mail:        |  |
| Mobile/Tel No: |  |

#### Registration Fee

|   | Fee Before GST (6%) | GST (6%) | TOTAL      |
|---|---------------------|----------|------------|
| <b>Individual Fee</b>                     | RM945               | RM56.70  | RM1,001.70 |
| <b>Group Fee</b><br>(3 or more delegates) | RM895               | RM53.70  | RM948.70   |

**Closing date:** 9<sup>th</sup> November 2016. An early bird discount of RM50 for payment received before 26<sup>th</sup> September 2016.

#### Payment

Payment is to make payable to:  
**Applied Technology Group Sdn Bhd**  
**Public Bank Berhad (Malaysia)**  
Account no: 3178247302  
GST Registration Number: 000641294336

#### Payment terms:

Payment is required before the event. Once payment is received, your seat will be reserved. Registration fee includes lunch, refreshments and full training documentation as specified. Delegates may be refused admission if payment is not received prior to the event. The fee does not include hotel accommodation.

#### Cancellation Policy

All cancellation of registration must be made in writing. If you are unable to attend:

- a) A substitute delegate is welcomed at no additional charge.
- b) Your registration can be credited to a future event.
- c) You will receive a full refund less 10% administration charge if cancellation is received in writing more than 14 days before the event.
- d) No cancellations will be accepted within 14 days before the event start date. Full course documentation will however be sent to the delegate.

#### Course Schedule

Course starts at 9.00am and ends at 5.00pm daily. Please arrive at 8.30am on day one to allow time to register and receive course materials.

#### Please send completed form to:

Fax to: **+603 5637 9945**  
or Email to : [admin@apptechgroups.net](mailto:admin@apptechgroups.net)  
For enquiry, please call: +603 5634 7905  
Or refer to our website [www.apptechgroups.net](http://www.apptechgroups.net)

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