

# Pumps & Pumping Systems Training Workshop



29 January – 02 February, 2012

**Duration:** 5 days

**Venue:** *Holiday Villa Hotel, Doha, Qatar*



**Speaker:** S. K. Varshney

**Fees:** USD 3500 \$ / individual

Special discount for Groups:

✓ 4 attendees or more: 10 % discount

Developed & Conducted by:

**Millennium Solutions Training Center (MSTC)**

# Pumps and Pumping Systems

## Design, Selection, Specification, Installation, Operation and Troubleshooting

Pumps are machines that move fluids from one place to another by applying energy to the fluid. The fluid needs enough energy to overcome gravity and any resistance within the system. The objective of this course is to provide the attendee with practical knowledge and skills needed to address common concerns of pumps and pump systems.

### *Course Objectives*

Upon completion of the unit, the trainee will be able to

- Describe the functions of a pump
- Name the two classifications of pumps
- Describe the working principle of a kinetic (centrifugal) pump and its main components and their function
- Name and identify various types of centrifugal pumps and describe how they work
- Identify the components of each type of centrifugal pumps and their functions
- Describe the working principle of a positive displacement pump and its main components and their function
- Name and identify various types of positive displacement pumps and describe how they work
- Select the appropriate pump driver

### *Course Attendees*

New engineers, senior engineers, asset management team members, design, operations and maintenance personnel who are or will be responsible for the selection, sizing, specification, installation, testing, operation and maintenance of pump stations. Also for the experienced professionals who want to review or broaden their understanding of pumps and drivers.

**Duration:** 5 days

### **Course Certificate:**

**MSTC** certificate will be issued to all attendees completing minimum of 80% of the total tuition hours of the course.

### **Training Methodology:**

1. Expert tutor input using power points.
2. Participant discussion and involvement.
3. Case studies, Best practice examples.
4. Supportive comprehensive course manual enabling practical application and reinforcement.

## INTERNATIONAL SPEAKERS:

Delivering information through knowledge & experience obtained by renowned international speakers is one of the effective tools adopted by **MSTC**.

## ON SITE TRAINING:

- ✓ Customize the training program to your workplace.
- ✓ Conduct the training program when & where you need it.
- ✓ Save more than 50% by conducting **MSTC** training workshop at your premises.

To request full detailed outlines, instructor's profile or any information about registration, please don't hesitate to contact us at:

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