

## **ISCOSA Training Center**

### **SHAFT ALIGNMENT PRACTICAL TRAINING PROGRAM 5 DAYS**

#### **COURSE OUTLINE:**

- Day 1            Equipment Preparation
- Foundation
  - Pipe Strain
  - Soft Foot Conditions
  - Taking Run-out Readings
  - Measuring Thermal Growth
  - Setting the Face Gap
- Determining Mechanical Center
- Determining Magnetic Center
  - Rim and Phase Alignment Method
  - Setting-up the Dial Indicators
  - Measuring Bag Sag
  - Measuring Vertical Plane Misalignment
  - Measuring Distances
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop
- Day 2            Taking Dial Indicator Readings
- Graphing and Correcting Vertical Plane Misalignment
  - Determining Parallel and Angular Misalignment in Vertical Plane
  - Graphing Thermal Growth
  - Using Formulas
  - Correcting Vertical Plane Misalignment
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop
- Rim and Phase Alignment: Horizontal Plane Misalignment
- Measuring Horizontal Misalignment
  - Graphing Horizontal Misalignment
  - Using Formulas
  - Correcting Horizontal Misalignment
- Introduction to Reverse Dial Alignment Methods
- Alignment Preparations
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop



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- Day 3            Data Sheets
- Tape Measurements
  - Measuring and Correcting Vertical Plane
  - Misalignment
  - Graph Method
  - Formula Method
  - Moving the Motor
  - Thermal Growth
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop
- Day 4            Measuring and Correcting Horizontal Plane Misalignment
- Taking Horizontal Plane Readings
  - Correcting Horizontal Plane Misalignment
  - Graph Method
  - Formula Method
  - Moving the Motor
  - Aligning Vertical Mounted Equipment
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop
- Day 5            Establishing Orientation
- Rim and Face Method
  - Measuring Parallel and Angular Misalignment
  - Determining Parallel Misalignment Corrections
  - Correcting Angular Misalignment
  - Practical Task: (Using Pump and Motor Single Shaft and Tools) in Workshop

Fee: SR 10,000 per participant.

Date: Nov 26-30, 2011

Venue: ISCOSA Training Center, Dammam

Registration can be made by sending Email or Fax to:

Email: [ISCOSA.Training@Siemens.com](mailto:ISCOSA.Training@Siemens.com)

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- Nothing to Follow -

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