



# Mechanical Skills For Electrical / Instrument Personnel

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## **COURSE CONTENT**

### **Aim**

The enable Electrical and Instrument personnel to perform mechanical tasks and form refresher and appreciation of certain skills.

### **Pre-requisites**

Delegates should have either an electrical or instrument background.

### **Course Duration**

The course is of ten days in duration.

### **Optimum Number**

Maximum of 6 delegates per course

### **Training Aids**

OHP, Information hand-outs and practical exercises.

## **COURSE SYLLABUS**

- Safety Precautions
- Pipe bending and cutting
- Pipeline stressing and supports
- Steam tracing and use of jacketed lines and ejectors
- Pipeline cleaning techniques
- Pipeline system methods of isolation
- Lifting and Handling Techniques
- Safe use of portable hoists / slings
- Appreciation of large site lifts and heavy load transportation
- Transportation of High Pressure Air Cylinders and other gases

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- Change over of manifolds
  
- Working in confined spaces
- Abrasive Wheels Regulations
  
- Pedestal Grinders
- Portable Grinders
  
- Welding – safety precautions
  
- Welding knowledge and practice in use of gas. MMA, TIG, MIG, soldering and brazing techniques for the joining of metals
  
- Weld Test
  
- Pumps – Types and uses
  
- Drive Mechanisms

**Dates available on request**

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