



MECHANICAL SKILLS COURSE FOR ELECTRICAL AND INSTRUMENT DISCIPLINES

COURSE CONTENT

AIM

To enable Electrical and Instrument staff to perform mechanical tasks and refresh on appreciation of skills.

Pre-Requisite

Delegates should have an Electrical or Instrument background.

Course Duration

10 days.

Maximum Number

8 persons.

Training Aids

Lecture notes and audio/visual presentation, practical exercises and large plant simulation.

Assessment

Practical tests.

Certification

On successful completion of the course candidates will receive a NETA certificate of attendance.

Please Note: NETA certificates have an advised expiry of 3 years from date of issue.

Additional Information

Meeting the needs and expectations of service users is of the highest priority to our staff. Therefore if you have any concerns or wish to make a comment about the service please contact: info@NETA.co.uk

COURSE OBJECTIVES

On successful completion of this course, delegates will be able to:

- Recognise pipe work systems
- Understand and apply Regulations and work safely
- Understand materials and handling
- Understand movement and transportation of loads
- Understand Regulations and best practices regarding the use of Abrasive Wheels
- Understand drive mechanisms and alignment
- Understand types of pumps

COURSE SYLLABUS

Pipework Engineering

- Safety precautions, pipework failure, pressure testing, hazard recognition
- Pipe bending and cutting, pipe joining methods, use of fittings
- Pipeline stressing and supports
- Pressure testing
- Hydraulic and Pneumatic techniques
- Steam tracing and use of jacketed line and ejectors
- Pipeline cleaning techniques
- Pipe work system methods of isolation

Lifting and Handling Techniques

- Safety precautions including Health & Safety at Work Act (HASWA) and LOLER & PUWER
- Safe use of portable hoists and slings
- Appreciation of large site lifts and heavy load transportation

Safety

- Safety precautions in both factory and site conditions

Abrasive Wheels

- Regulations
- Pedestal Grinders
- Portable Grinders

Valves

- Types and Uses

Pumps

- Types and Uses
- In-line
- Canned Rotor
- Centrifugal
- Vertical multi-stage

Drive Mechanisms

- Belts
- Gearboxes
- Couplings
- Alignment
- Keys
- Spiders

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CSM: 09/20