



CERTIFICATE VOCATIONAL TRAINING PROGRAMME
ON
MECHANICAL MAINTENANCE PRACTICES IN INDUSTRIES

Who should Attend:

Engineering student from Mechanical/Mechatronics doing under graduation with some basic knowledge.

THEORY & PRACTICALS BASED ON FOLLOWING CONTENTS:

- Understanding of Engineering drawings (Overview):
 - Exposure to Engineering Tools and Fixtures: Various tools, definition, types and their applications in Mechanical & in industries.
- Machinery and Parts, Material Handling Equipments:
 - Fasteners like nuts, types of nuts and their uses. Bolts, types of bolts and their uses.
 - **Bearing, Introduction, Classification (journal and Thrust)**
- **Valves, Compressors & Pumps: Fundamentals- Operation, Maintenance and Testing**
 - Types, classification of pumps
 - Pump Components
 - Operation duty point
 - Compressors types & Compressors components
 - Compressors operation and maintenance
 - **Operation, Maintenance and Testing**
- **Industrial Hydraulics & Pneumatics - Fundamentals; Operation & Maintenance:**
 - Instrument Air Compressors
 - Distribution of instrument air, Component of a Pneumatic System
 - Basics of Cylinders & Valves – Types, Working principles, operations
 - Concepts of Latches and their Applications
 - Introduction to Electro- Hydraulics & Pneumatics
 - Elements in a Hydraulic System.
 - Cylinders & Valves - Their working and interactions.
 - **Operation, Maintenance and Testing**
- **CRANES (Fundamentals)**
 - Types: Operation of Cranes and Hoists
 - Important Parts and Functions
 - **Fundamental: Operation, Failure, Maintenance and Testing**

Certification: Every successful participant will be awarded a course completion certificate.