

About CRISP

CRISP is established under Indo-German Cooperation agreement as an autonomous organisation of the Dept. of Technical Education and Skill Development, Govt. of M.P. CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of academic and teaching institutions, Students and Jobseekers. CRISP is equipped with the state-of-the-art equipment and technology, latest software, qualified, trained and experienced trainers in the relevant fields.

Other training programmes in the area of Mechanical Engineering offered at CRISP are :

- AutoCAD
- CAD/CAM - CATIA/UGNX/ Pro-E
- AutoCAD Electrical/Mechanical/Civil
- CNC Technology
- Car Mechatronics
- Industrial Pneumatics
- Industrial Hydraulics
- Industrial Hydraulics and Pneumatics



Patron Clients of CRISP



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Centre for Research and Industrial Staff Performance

(Established under Indo-German Technical Co-operation)
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MECHANICAL MAINTENANCE



...unleashing the full potential of men & machines

MECHANICAL MAINTENANCE



Introduction of Course

The mechanical maintenance training programme is designed to improve the operational and maintenance knowledge and skills of the participants. The training programme provides the participants with an understanding of fault diagnosis by analyzing various symptoms in the mechanical systems and equipment and troubleshoot the faults.

Course Contents

Fundamentals

- Importance of maintenance
- Types of maintenance

Fundamentals of Power transmission

- Power transmission Mechanism (Belt Drive, Chain Drive, Gear Drive and Gear Boxes)
- Specifications and interpretation
- Nomenclatures of belts, chains and gears
- Installation and alignment
- Failure indications

Bearings

- Introduction and Types of bearings
- Nomenclature of bearings
- Bearing material and its selection
- Installation and removal of bearings
- Failures and remedies

Couplings

- Types and causes of failure
- Selection of couplings
- Mounting and dismounting of couplings

Shaft alignment

- Necessity of alignment
- Types of misalignment
- Process of alignment

Process control valve

- Types and applications of valves
- Maintenance and repair of valves
- Mounting and dismounting of valves
- Troubleshooting of valves

Centrifugal pumps

- Fundamental, types and application of pump
- Gland packing and mechanical seal mounting and dismounting
- Pump disassembly, inspection and reassembly
- Pump failure and troubleshooting

Lubrication

- Introduction of lubricants
- Types and properties of lubrication

Tools and instruments used in maintenance and alignment process

Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice

Pre-requisite

- Industry personnel with relevant experience.
- Passouts or students pursuing Degree/ Diploma in Mechanical/ Production/ Instrumentation Engineering or equivalent.

Duration

Full time: 5 working days (8 hours/day)

Part time: 4 weeks (20 working days, 2 hours/day)

Course Fee

Kindly refer to our training calendar at www.crispindia.com or can be obtained from CRISP counselling desk

Mode of Payment

Cash / Online/ Debit/ Credit Card