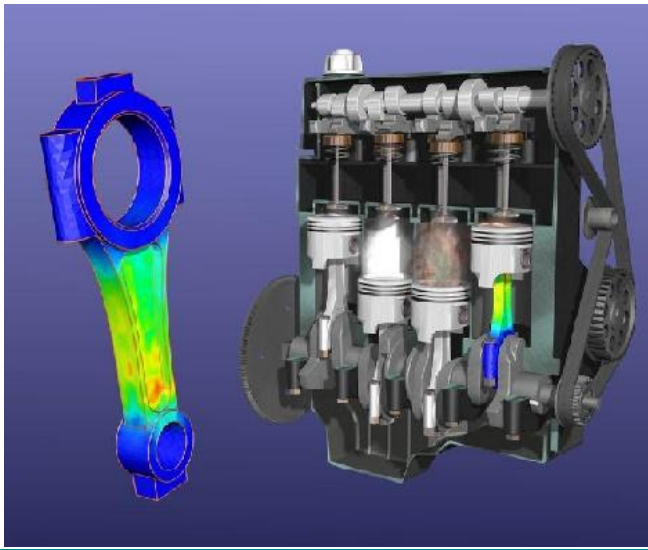
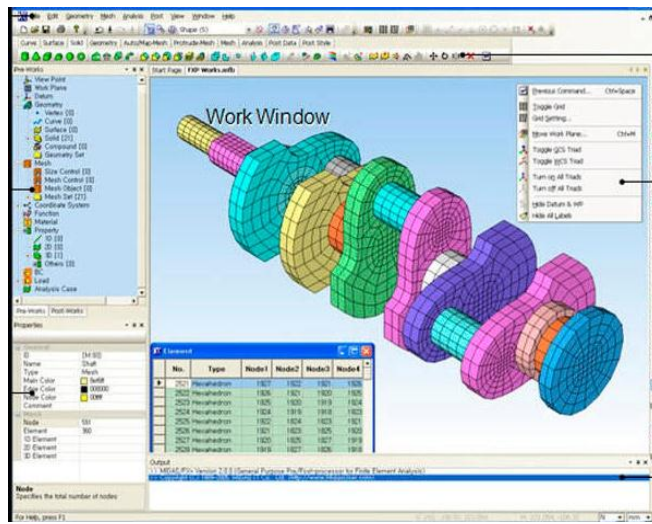


Advanced CAD & CAE : 4 weeks duration



Course Content:

- ❖ Introduction to CAD/CAM & CAE
- ❖ Introduction to CATIA Interface & workbench.
- ❖ Sketching in CATIA
- ❖ Introduction of Part modeling features like Pad & Pocket, Shaft,Groove,fillet,Stiffner,Chamfer, Rib,slot,Shell,Multisection solid & others.
- ❖ Introduction to Drafting with all tools.
- ❖ Introduction to Import Export Format.
- ❖ Introduction to ANSYS & discussion about nodes ,elements & boundary condition.
- ❖ Discussion of 1d, 2d ,plane& 3d element.
- ❖ Excercises on Beam with different loads,Trusses,Plane,Solid geometry.



Duration:	160 hours (4 weeks, 5days/weeks, 8 Hour/Day)
Admission Requirements:	Degree / Diploma in Mechanical / Production / Manufacturing science Engineering
Course Starting Date:	II Batch of Training From 9 th March, 2015 to 4 th April, 2015



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HMT (International) Limited

(A Government of India Undertaking)

HMT Bhavan, 59,Bellary Road, Bangalore - 560 032, India, www.hmti.com

Telephone No-91 80 23339052,23339060-66,Fax: +91 80 23339048 / 23339286

Contact Person: Shri.S.Girish Kumar, Managing Director, E-mail: girishkumar@hmti.com.

Shri.K.Sridhar, General Manager, Projects, E-mail: ksridhar@hmti.com

Training will be conducted at: Central Tool Room Training Centre (CTTC), Bhubaneswar, Odisha

Advanced Hardware & Networking: 4 weeks duration



Course Content:

- ❖ Introduction about PC Environment (Architecture and Components) Microprocessor, Memory, HDD, Motherboard, etc.
- ❖ BIOS Setup & Assembly of PC
- ❖ Software Installation, Upgrades and Maintenance
- ❖ Windows operating system
- ❖ Installation of Applications software & Customization of OS
- ❖ Introduction to computer Network
- ❖ Network Essentials, Setup and Management
- ❖ LAN Topologies & LAN Cabling Techniques
- ❖ IP Addresses & Subnet mask
- ❖ Server 2003 & its security policy
- ❖ LINUX (Open source software)

Duration:	160 hours (4 weeks, 5days/weeks, 8 Hour/Day)
Admission Requirements:	Any Degree / Diploma in Computer Science or equivalent
Course Starting Date:	II Batch of Training From 9 th March, 2015 to 4 th April, 2015



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Shri.K.Sridhar, General Manager, Projects, E-mail: ksridhar@hmti.com

Training will be conducted at: Central Tool Room Training Centre (CTTC), Bhubaneswar, Odisha

Automation with Hydraulics and Pneumatics: 4 weeks duration



Course Content:

- ❖ Introduction and terminology used in Pneumatics and Hydraulics.
- ❖ Pneumatic System.
- ❖ Hydraulics System.
- ❖ Why Pneumatics and Hydraulics?
- ❖ Application of Pneumatics.
- ❖ Application of Hydraulics.
- ❖ Mechanical Pneumatic system.
- ❖ Apparatus for Hydraulics system.
- ❖ Compressors and its types.
- ❖ Pneumatic Piston
- ❖ Valves and its types.
- ❖ Pneumatic and Hydraulics Probes.
- ❖ How it operates and controls a process.
- ❖ Electro-pneumatic System.
- ❖ Advantages over conventional pneumatic system.
- ❖ Study of electro-pneumatic valves
- ❖ Study of electrical circuit for pneumatics.
- ❖ Application of Electro pneumatics and Electro hydraulics In industrial Process Units.

Duration:	160 hours (4 weeks, 5days/weeks, 8 Hour/Day)
Admission Requirements:	Degree / Diploma in Mechanical / Electrical / Production / Manufacturing science Engineering
Course Starting Date:	II Batch of Training From 9 th March, 2015 to 4 th April, 2015



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Training will be conducted at: Central Tool Room Training Centre (CTTC), Bhubaneswar, Odisha

Advanced Machining Technology with CAD/CAM: 4 weeks



Course Content:

- ❖ Introduction to CAD/CAM
- ❖ Creating Drawings by using Auto CAD
- ❖ Introduction and terminology used in numerically controlled (NC) and computerized numerically controlled (CNC)
- ❖ G (Preparatory) code and M (Miscellaneous) code
- ❖ Control System
- ❖ CNC Part Programming
- ❖ Canned Cycle, Job Setting
- ❖ Work Offset, Tool Offset
- ❖ Job Machining
- ❖ Selection of Carbide Inserts
- ❖ Selection Parameter
- ❖ Introduction o Master CAM
- ❖ Master cam design(2d,solid & surface
- ❖ Constant depth milling 2d tool path
- ❖ Variable depth milling tool 3d path
- ❖ Lathe tool path.
- ❖ Job Machining with DNC(Direct Numerical Controlled)
- ❖ Introduction and principle of EDM (Electric Discharge Machining) and WEDM (Wire Electric Discharge Machine)
- ❖ Selection of Electrode and Dielectric Fluid
- ❖ Setting of Spark Gap
- ❖ Machining with EDM (Electric Discharge Machine)

Duration:	160 hours (4 weeks, 5days/weeks, 8 Hour/Day)
Admission Requirements:	Degree / Diploma in Mechanical / Production / Manufacturing science Engineering
Course Starting Date:	II Batch of Training From 9 th March, 2015 to 4 th April, 2015



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Training will be conducted at: Central Tool Room Training Centre (CTTC), Bhubaneswar, Odisha

Machine Tool Maintenance: 4 weeks duration



Course Content:

- ❖ Maintenance management engineering
- ❖ Industrial technology – wire
- ❖ Lubrication and lubricants –oil seals and packing
- ❖ Plain and antifriction bearing
- ❖ Hydraulic controls and its maintenance
- ❖ Commission and its components
- ❖ Roto tech ,arc and gas spray
- ❖ Installation and commissioning
- ❖ Assembly and disassembly and reconditioning of machine tools
- ❖ Scraping practice
- ❖ Geometrical testing of machine tools (lathe , milling etc)-preventing maintenance

Duration:	160 hours (4 weeks, 5days/weeks, 8 Hour/Day)
Admission Requirements:	Degree / Diploma in Mechanical / Electrical / Electronics / Production / Manufacturing science Engineering
Course Starting Date:	II Batch of Training From 9 th March, 2015 to 4 th April, 2015



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