



Practical Trg. on Installation and Maintenance of Solar Plant & Equipments



3D SCANNING & 3D PRINTING

Job Oriented Skill Development Training & Summer Training Programmes

Name of Programme	Duration	Fee (Rs.)*
Computer Aided Drafting 2D+3D on AutoCAD 2013 & 3D Printing	One Month	5,000/-
Computer Aided Designing-PTC Creo-2.0 (Pro/E)	One Month	6,000/-
Computer Aided Designing CATIA V6x2013	One Month	6,000/-
Operation and Programming on Industrial CNC Machines (VMC 400, Turning Center, ZNC, WireCut) & 3D Printing	One Month	6,000/-
Installation and Maintenance of Solar Plant & Equipments	One Month	6,000/-
One Week Specialized Programme on Operation and Programming on		
* CNC Vertical Machining Centre 400		2,000/
* CNC Turning Centre (Lathe)		each
* CNC WireCut M/c		
3D Scanning & 3D Printing	One Week	2,000/
Installation and Maintenance of Solar Plant & Equipments	One Week	4,000/

*50% rebate for SC/ST/PH Participants. Subject to revision from time to time.

OTHER FACILITY

Common Facility Services

Central workshop is established by Ministry of Micro Small and Medium Enterprises, Govt. of India to facilitate (Common facility) Micro Small, Medium Enterprises etc. Following machines are available for common facility :-

CNC MACHINES

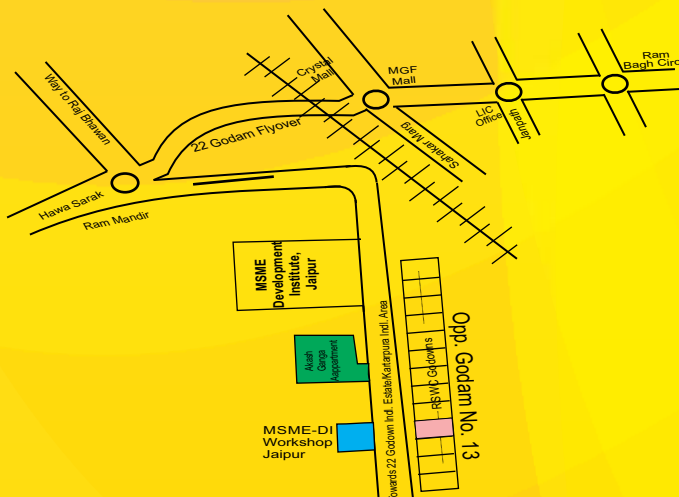
- ♦ Machining Centre VMC 400
- ♦ HMT Lathe Pushkar 200
- ♦ Spark Erosion EZNC 50
- ♦ CNC WireCut Machine

OTHER MACHINES

- ♦ Vertical Surface Grinder
- ♦ Surface Grinder
- ♦ Tool Cutter Grinder etc.



HOW TO REACH



Opportunities for Youth to

Enhance their Technical Skills by Practical Training

on

AutoCAD

PTC Creo

CATIA

Operation & Programming on CNC Machines

3D Scanning & 3D Printing

Installation and Maintenance of Solar Plant & Equipments

CENTRAL WORKSHOP

केन्द्रीय कार्यशाला

MSME-Development Institute

सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय-भारत सरकार

A-17, 18, Opposite Godam No. 13, 22 Godam Industrial Estate, Jaipur-302006

Phone 0141-2211218, 9829879389, 9414795999,

Tele Fax: 0141-2210553

E-mail : dedi-jaipur@dcmeme.gov.in

Website : www.msmedijaipur.gov.in

Trainings

High Tech CAD-CAM Lab & Solar Lab is Established by Ministry of Micro Small and Medium Enterprises, Govt. of India to impart following training programmes for Technical graduate, Engineers, Diploma holders, Industrialist and also for new Entrepreneurs.

AutoCAD2013 With 3D Printing (कम्प्यूटर एडेड ड्रॉफिटिंग एवं डिजाईनिंग-ऑटोकैड विद् 3डी प्रिटिंग)

- ◆ Basics of computer
- ◆ Creating 2D Drawing
- ◆ Use of Draw tools
- ◆ Use of modifying tools
- ◆ Creating & editing text, hatching etc.
- ◆ Advanced object creation & editing, Enquire information-list, id, distance, area,
- ◆ Dimensioning CAD entities,
- ◆ Prepare and manage Drg. Layout,
- ◆ Plot drawings etc.
- ◆ 3D modeling concepts, View point and UCS, Wireframe modeling, Solid modeling & editing, Create & manage 2D view from 3D models etc.

CATIA V6 x 2013 (केटिया वी6 x 2013)

- ◆ CATIA user interface
- ◆ Creating and editing sketches
- ◆ Creating transformation features
- ◆ Creating dress up features
- ◆ Editing parts in assembly
- ◆ Generative surface & sheet metal design
- ◆ Drawing view generation
- ◆ Bill of materials, balloons, drawing and printing
- ◆ Dress up on 2D Views,
- ◆ Assembly, Simulation, Real time rendering etc.

3D SCANNING & 3D PRINTING

3डी स्कैनिंग एवं 3 डी प्रिटिंग

- ◆ Introduction and Operational features of 3DScanner & 3D Printer of engineering object.

Operation & Programming on CNC Machines with 3D Printing (ऑपरेशन एण्ड प्रोग्रामिंग ऑन सी.एन.सी. मशीन एवं 3डी प्रिटिंग)

- ◆ Manual Programming
- ◆ Working Concept of CNC Machines
- ◆ Operation and Programming on following CNC machines
 - Vertical (Milling) Machining Center VMC-400
 - CNC Turning Centre (Pushkar-200)
 - CNC Wire-CUT (Electronica) M/c
 - ZNC Spark Erosion (Electronica)
 - 3D Printing (*Practical work on Each CNC Machines*)

Installation and Maintenance of Solar Plant & Equipments (सोलर प्लान्ट और उपकरणोंकी स्थापना एवं रख-रखाव)

- ◆ Basics of Electricity & Solar PV Technology
- ◆ Assembling of solar panel,
- ◆ Solar home light System & Solar Street light installation, Charge controller
- ◆ Solar Load calculation
- ◆ Series & parallel connection & Calculation for solar panel
- ◆ Battery & Inverter identification
- ◆ Solar Plant project & installation - Off Grid, On Grid.
- ◆ Solar Policy
- ◆ Off grid plant with normal inverter, solar inverter, hybrid inverter & PCU.
- ◆ Net metering concept, Unit calculation.

PTC Creo 2.0 (कम्प्यूटर एडेड डिजाईनिंग बेस्ड ऑन पीटीसी क्रियो 2.0)

- ◆ Pro/ENGINEER concepts, Using the Pro/ENGINEER interface
- ◆ Creating extrudes, revolves, and ribs, Creating datum features
- ◆ Utilizing internal sketches and embedded datum's
- ◆ Creating Sweeps, Blends, Creating holes, Shells, Rounds, Chamfers, Drafts
- ◆ Variable section sweeps, helical sweeps and swept blends
- ◆ Layers, family tables & UDF, Assembling with constraints
- ◆ Exploding assemblies, creating surface features
- ◆ Creating drawing views, Using advanced assembly constraints
- ◆ Using assembly features and shrink wrap etc.



Solar Training Lab



VMC-400 (CNC M/C)

EZNC-50



CNC Turning Centre



CAD LAB

CNC WireCut M/c