

TRAINING PROGRAMMES OFFERED BY EC NILOKHERI

Sr. No.	Code	Name of the course	Starting dates	Duration	Timings	Tuition Fee	Brief Contents	Eligibility	
CAD/CAM COURSES									
1	ST 01	AutoCAD Mechanical (Regular Session)	Every Month	96 Hours	9.00 AM -5.00PM	Rs. 5,900/-	Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model for mechanical components, Apply mechanical rendering , Observe & follow	10th Pass	
2	ST 02	Electrical CAD	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 5,900/-	Broad knowledge of E-CAD, Design different types of electrical circuits, Use software for generating solutions in E-CAD, Communicate effectively, Observe & follow safety	10th Pass	
3	ST 03	CREO Parametric	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 9,440/-	Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting , Observe & follow safety, Communicate effectively	10th Pass	
4	ST 04	Solidworks	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 6,254/-	Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting , Observe & follow safety, Communicate effectively	10th Pass	
5	ST 05	MasterCAM	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 6,254/-	Create 2D sketch, Design Solid Model, Develop Wire frame & Surface Model, Generate 2D tool path, Generate 3D tool path, Observe & follow safety, Communicate effectively	10th Pass	
6	ST 07	Unigraphics	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 11,800/-	Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting , Observe & follow safety, Communicate effectively	10th Pass	
7	ST 08	CATIA	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 9,440/-	Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting , Observe & follow safety, Communicate effectively	10th Pass	
ANALYSIS SOFTWARES COURSES									
8	ST 09	Ansys	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 9,204/-	Understand Finite Element Methods & GUI of ANSYS, Perform Structural Analysis for 1D elements, Analysis of 2D Structure, Analysis of 3D Structure, Analysis of 1D, 2D, 3D Thermal Elements, Observe & follow safety, Communicate effectively	10th Pass	
CNC MACHINING COURSES									
9	ST 11	CNC Programming - Lathe	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 11,800/-	List different Cutting tooling standards , Develop mathematical / Analytical skills , Execute CNC Machining Programme , CNC Lathe Programming - On job training, Communicate effectively, Observe & follow safety	10th Pass	
10	ST 12	CNC Machining - Lathe	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 11,800/-	List different Cutting tooling standards , Develop mathematical / Analytical skills , Execute CNC Machining Programme , CNC Lathe MACHINING - On job training, Communicate effectively, Observe & follow safety	10th Pass	
11	ST 13	CNC Programming - Milling	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 11,800/-	List different Cutting tooling standards , Develop mathematical / Analytical skills , Execute CNC Machining Programme , CNC Milling Programming - On job training, Communicate effectively, Observe & follow safety	10th Pass	
12	EC01	Basic Welding and Fabrication	Every Month	02 Months	4hrs/day	Rs. 5,900/-	Introduction to welding equipments, tools and accessories., different types of metals and alloys and their properties., introduction to various types of welding techniques using gas and electric arc, Selection of electrodes, Introduction to advanced welding processes, Safety, care and precautions, Designing, fabrication and finishing, Entrepreneurship/marketing skills.	10th Pass	
13	ST 14	CNC Machining - Milling	Every Month	96 Hours	9.00 AM-5.00PM	Rs. 11,800/-	List different Cutting tooling standards , Develop mathematical / Analytical skills , Execute CNC Machining Programme , CNC Milling Machining - On job training, To communicate effectively, Observe & follow safety	10th Pass	
14	OT-142	CNC Programming & Machining	Every Month	02 Months	9.00 AM-5.00PM	Rs. 31,270/-	Understand & explain the concept and importance of CNC programming, Prepare & understand line program for various profiles, Identify & set parameters for various simulators, Prepare & simulate various operation cycles for lathe and milling, Use and simulate cycles using various Controls.	Pursuing Degree, Diploma, ITI in Mech. Trades	
15	OT-072	CNC Machining (WIRE-CUT)	Every Month	One Month	4 hrs/day	Rs. 11,800/-	Selection of a cutting tool based on the coated fabric & its importance, Setting the parameters of cutting machine, Basic principles of operation & typical operations that they can perform, Cutting operation using cutting tools, Machining operations that they can performed, the methods, equipment used with how to start and stop the machine in normal & emergency situations.	Pursuing Degree, Diploma, ITI in Mech. Trades	
ELECTRICAL/ ELECTRONICS/ MECHATRONICS SKILL DEVELOPMENT COURSES									
16	ST 16	Computer Hardware & Networking	Every Month	96 Hours	4hrs/day	Rs. 6,254/-	Basic Electronics, Computer Software, Computer Hardware, Networking	10th Pass	
17	ST 19	PLC Programming	Every Month	96 Hours	4hrs/day	Rs. 9,440/-	Broad knowledge of PLC programming., Apply ladder logic principles for solutions to the specific problems., Use software for generating solutions in PLC., Communicate effectively., Observe & follow safety	10th Pass	
CIVIL/ ARCHITECTURAL ENGINEERING SKILL DEVELOPMENT COURSES									
18	EC02	AutoCAD Civil/Architecture	Every Month	96 Hours	4hrs/day	Rs. 5,900/-	Introduction to AutoCAD, Create 2D Sketch, Understand the layer management & block, 3D modelling of Civil Plans & Elevations, Drafting & Detailing , Apply Civil rendering, Observe and follow safety	10th Pass	
19	EC03	3DS Max	Every Month	96 Hours	4hrs/day	Rs. 5,900/-	Introduction 3Ds Max & Initial Settings,Navigation tools, Unit and grid Settings, Standard primitives, Extended Primitives, Create other geometries, Basic Modifiers, Advance Modifiers, Introduction to materials, material Editor, Creating Floor plan, Exterior Rendering with arnold engine	10th Pass	
20	EC04	Revit Architecture	Every Month	96 Hours	4hrs/day	Rs. 5,900/-	Introduction to plans, elevations in revit, creating walls, windows, doors, Creating floor and roofs, Creating Ceiling plans, adding furniture to plan, Creating site plan, Creating massing and site components, Adding section views, creating materials, Render the 3d model	10th Pass	
INDUSTRIAL & SOFTWARE TRAINING									
21	ST 22	Mechanical CAD/CAM	Jul, 2021 Jan, 2022	25 Weeks	4hrs/day	Rs. 25,000/-	Create object drawing on CAD software, Create objects using 3D Modeling Space , Print Preview and Plotting in CAD, Interpret & write CAM program for CNC machines, Describe reverse engineering and rapid prototyping technology, Apply professional & technical knowledge while performing the task, Implement time management, manage/organize related task in day to day work for personal & social growth, Selection and analysis of CAD/CAM software, Implement soft skills, working with Computer and communicate with required clarity, Recognize & comply safe working practices, environment aspect and housekeeping	Pursuing Degree in Mech. Trades	
22	ST-90	On-Job-Training	Every Month	2 Weeks (75 Hrs) 4 Weeks (150 Hrs)	6.5 Hrs / day	Rs. 3,000/- Rs 6,000/-	AutoCAD (Mech), AutoCAD (Civil) / SolidWorks / MasterCAM / CNC Programming-Lathe / CNC Programming-Milling / CNC Machining (WIRE-CUT) / Revit / Stand-Pro / 3-D Max / Electrical CAD / Microcontroller Programming / Embedded System / PLC Programming / Internet-of-Things / Basic + Advance Industrial Electrical Maintenance / Basis Mechatronics / Basic + Advance Pneumatics / Basic + Advance Welding / Computer Hardware and Networking / Basic Computer applications etc.	Pursuing ITI Trainees	
NSQF Approved Courses									
Sr. No.	QP Code	Name of the course	NSQF Level	Starting dates	Duration (Hours)	Timing	Tuition Fee	Brief Contents	Eligibility
23	MSME/PGDTD&CC/01	Post Graduate Diploma in Tool Design & CAD/CAM	Level 8	Jul-21	2340 Hrs. (18 Months) 3 Semesters	6 hr/day	Rs. 40,000/- per semester	CNC Programming and CNC Machining, Computer Aided Design (CAD-Auto CAD/Collab CAD and Solid Works), Computer Aided Manufacturing (Master CAM & Unigraphics CAM), Jigs, Fixtures and Gauges, Design of Press Tools, Design of Moulds, Design of Die Casting Dies, Advanced Metrology, Advanced-CAD-I (Unigraphics & CATIA), Manufacturing Process-Process Planning and Heat Treatment, Advanced-CAD-II (Pro-E), Computer Aided Engineering (Ansys), Rapid Prototyping and Reverse Engineering, Entrepreneurship, Engineering Research Methodology	Preferably Graduate (Mech. Engineering / Prod. Engineering or equivalent)
24	MSME/ADCNC/06	Advanced Diploma in CNC Programming Techniques and Practices	Level 6	Jul, 2021 Jan, 2022	900 Hrs. (6 Months)	6 hr/day	Rs. 60,000/-	Production Technology, Auto-CAD, Engineering Drawing, Metrology, CNC Programming, MasterCAM, Unigraphics, Project Work, Material Technology, Communication Skill	Preferably Diploma in Mech./ Prod. / Tool Design/ Mould Making/ Automobile
25	MSME/PDCC/ 13	Post Diploma In CAD/CAM	Level 6	Jul, 2021 Jan, 2022	1560 Hrs. (12 Months) 2 Semesters	6 hr/day	Rs. 45,000/- per semester	Engineering Drawing, CNC Part Programming, Computer Fundamentals and Auto CAD, Solidworks, Pro-Engineer, Finite Element Analysis (FEA), Reverse Engineering, Work NC, Master CAM, Unigraphics -NX, Entrepreneurship and Managerial Skills, CATIA, Basic Engineering Concept, Safety and Maintenance	Degree / Diploma in Mech./ Prod. / Tool & Die Making / Automobile or equivalent.
26	MSME/PDPTDM/10	Post Diploma In Tool and Die Manufacturing	Level 6	Jul, 2021 Jan, 2022	1560 Hrs. (12 Months) 2 Semesters	6 hr/day	Rs. 40,000/- per semester	CNC Programming and CNC Machining, Computer Aided Design (CAD-Auto CAD/Collab CAD and Solid Works), Fundamental of Tool & Die Manufacturing, Engineering Metrology and Quality Assurance, Production Planning & Controls,Computer Aided Manufacturing. (Master CAM & Unigraphics CAM), Advance CAM (Del CAM – 3 Axis and 5 Axis), Engineering Materials and Heat Treatment, Total Quality Management, Metal Cutting and Tool Design, Entrepreneurship	Preferably Diploma (Mech. Engineering or equivalent)
27	MSME/ADMMA/44	Advanced Diploma In Machine Maintenance and Automation	Level 6	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 40,000/-	Machine Operation, Electrical Hardware Logic Control, Electrical Machines, Pneumatic And Hydraulics, Machine Maintenance, PLC, SCADA, HMI, TIA Portal, Communication, Auto Cad Electrical, Basic Electronics	Preferably Degree/ Diploma in Electrical/ Instrumentation or equivalent engineering pass
28	MSME/MCCCC/38	Master Certificate Course In CAD/CAM	Level 6	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 40,000/-	Computer Aided Design (CAD-Auto CAD and Solid works), Computer Aided Design & Computer Aided Manufacturing (Unigraphics CAD & Unigraphics CAM), Computer Aided Engineering (ANSYS), Advance Computer Aided Design (CREO Parametric and CATIA), CNC Programming and CNC Machining, Entrepreneurship, Course-work: Project	Preferably Degree/Diploma (Mech. Engineering or equivalent)
29	MSME/MCCCT/ 41	Master Certificate Course In CNC Technology	Level 6	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 45,000/-	Planning, sequenc of operations, Execution of Job, Arrangement of tools & accessories, Elements of tools with their Functions, Manufacturing Process & Process Plan, Tool & Die Manufacturing Plan, Manual part programming, Execution of CNC Programming through CAM, Basic Health & Safety Practices, Total Quality Management, Communication & Entrepreneurship Skill, Problem solving, Project work on live jobs.	Preferably Diploma in (Mech. / Prod. / Automobile Engineering or equivalent)
30	MSME/MCCTD/ 42	Master Certificate Course In Tool Design	Level 6	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 45,000/-	Computer Aided Design (CAD-Auto CAD and Solid works), Computer Aided Design & Computer Aided manufacturing (Unigraphics CAD & Unigraphics CAM), Design of Jigs & Fixtures, Design of Press Tools, Design of Moulds, Design of Die Casting Dies, Entrepreneurship, Course-work: Project	Preferably Degree / Diploma (Mech. Engineering or equivalent)
31	MSME/CCAM/07	Certificate Course in Advance Machining	Level 5	Jul, 2021 Jan, 2022	1920 Hrs. (12 Months) 2 Semesters	6 hr/day	Rs. 40,000/- per semester	Production Technology, Engineering Drawing, Metrology, Material Technology, Auto CAD, CNC Lathe, CNC Milling, Non-Conventional Machining, Inplant Training, Communication Skill	Preferably ITI fitter.
32	MSME/CCTDM/29	Condensed Course In Tool and Die Making	Level 4	Jul, 2021 Jan, 2022	1560 Hrs. (12 Months) 2 Semesters	6 hr/day	Rs. 1,00,000/-	Production Technology, Auto CAD, Part Programming, Master CAM, Press Tool Design, CNC Technology, Engineering Drawing, Material Technology, Metrology, Press Tool Theory, Press Tool Design, Mould Manufacturing, Modern Manufacturing Technology, Jigs and Fixture , Mould Theory, Communicative English, Industrial Management, Inplant Training & Project Work	Preferably Matriculation (10th) pass
33	MSME/CCCT/55	Certificate Course in CNC Turning	Level 4	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 40,000/-	Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation, Quality Management System, Group Discussion and Personality Improvement, CNC Turning Programming & CNC Machining, Employability Skill, CNC Turning Programming - On Job Training	10th passed or its equivalent. Minimum age 15 years
34	MSME/CCCM/54	Certificate Course in CNC Milling	Level 4	Jul, 2021 Jan, 2022	780 Hrs. (6 Months)	6 hr/day	Rs. 40,000/-	Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation, Quality Management System, Group Discussion and Personality Improvement, CNC Milling Programming & CNC Machining, Employability Skill, CNC Milling Programming - On Job Training	10th passed or its equivalent. Minimum age 15 years
35	MSME/CCMO/21	Certificate Course In Machine Operations	Level 3	Jul, 2021 Jan, 2022	1560 Hrs (12 Months) 2 Semesters	6 hr/day	Rs. 35,000/- per semester	Machine Shop Theory, Engineering Metrology, Engineering Drawing, Workshop Calculation and Science, Employability Skill, Practical Lab, Project	8th pass and Minimum Age 15 Years
All the dates mentioned above are tentative and candidates should confirm the dates and availability of seats well in advance.									

