

MSME Technology Center Jalandhar



केन्द्रीय हस्त औजार संस्थान, जालन्धर
CENTRAL INSTITUTE OF HAND TOOLS, JALANDHAR
भारत सरकार की सोसायटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society
Ministry of Micro, Small & Medium Enterprises



CALENDAR OF TRAINING PROGRAMMES FOR THE YEAR 2020-21

Sl. No.	Title of programme/ course	Course/ QP Code	Dates of Commencement	Duration	Timings	Intake Capacity/ Batch	Basic Qualification	Fee	Contents in brief
A. Short Term Skill Development Programmes with online option									
1. CAD/ CAM Courses									
1.	AutoCAD – Mechanical	MSME / ACAD / 77	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Software Training : Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model for mechanical components, Apply mechanical rendering. Specialized Courses Observe & follow safety and Communicate effectively.
2.	Solidworks	MSME/ SDWRKS / 78	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting. Specialized Courses Observe & follow safety and Communicate effectively.
3.	CREO Parametric	MSME / CREO / 81	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
4.	MasterCAM	MSME/MCAM/100	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
5.	Unigraphics	MSME / UNI / 79	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.

6.	CATIA	MSME /CATIA / 80	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
7.	ANSYS	MSME / ANSYS / 82	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Understand Finite Element Methods & GU of ANSYS, Perform Structural Analysis for 1D elements, Analysis of 2D Structure, Analysis of 3D Structure, Analysis of 1D, 2D, 3D Thermal Elements. Specialized Courses Observe & follow safety and Communicate effectively.

2. PLC / Automation/ Electronics Courses

8	E CAD	MSME/ECAD/91	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Practical: Software Training on E-CAD software, design different types of electrical circuits. Specialized Courses Observe & follow safety and Communicate effectively.
9	PLC programming	MSME/PLC/87	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Theory: Basic Electronics, Switching ,Logic Gates, Wiring of PLC, Broad knowledge of PLC programming, Practical: Software Training and Interfacining with PLC Panne apply ladder logic principles for solutions to the specific problems. Software: Software for PLC programming(allen Broadly) Specialized Courses Observe & follow safety and Communicate effectively.
10	SCADA	MSME/SCADA/88	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Practical : SCADA design, SCADA design principles , software for generating solutions in SCADA, communicate effectively, observe & follow safety Specialized Courses Observe & follow safety and Communicate effectively.
11	Embedded systems	MSME/ ES / 89	Every Month	96 Hrs.	4H rs./day	25	10 th Pass	8500/-	Practical : Embedded system, Programming Languages And Operation Of 32 Bit Microcontroller, Software For Generating Solutions In EMBEDDED SYSTEM. Specialized Courses Observe & follow safety and Communicate effectively.
12	VLSI	MSME/VLSI/90	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Practical: VLSI.code of component, Front-End & BACK-End Design principles, software for generating solutions in VLSI Specialized Courses Observe & follow safety and Communicate effectively.

3. CNC Programming & machining Courses

13	CNC Programming - Lathe	MSME/ CNCPL / 92	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/-	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Programme on CNC simulator, CNC Lathe Programming - On job training. Specialized Courses Observe & follow safety and Communicate effectively.
14	CNC Machining - Lathe	MSME/ CNCML / 93	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Machining Programme on CNC simulator, CNC Lathe Machining - On job training. Specialized Courses Observe & follow safety and Communicate effectively.

15	CNC Programming - Milling	MSME/ CNCMP / 94	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Programme on CNC simulator, CNC Milling Programming - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>
16	CNC Machining - Milling	MSME/ CNCMM / 95	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Machining Programme on CNC simulator, CNC Milling Machining - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>

4. Computer Courses

17	JAVA	MSME/JAVA/99	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	<p>Practical: Java and Understand JVM and Its Architecture, Control Statement And Looping, Class and Object, Constructor, Array, Inheritance, Package, string, HTML,CSS, java script, JSP etc.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively</p>
18	Computer Hardware & Networking	MSME/CHN/102	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	<p>Practical: Basic Electronics, Computer Software, Computer Hardware and Networking</p> <p>Specialized Courses Observe & follow safety and Communicate effectively</p>

B. AICTE approved Long Term Programmes/Courses:

19	4 Years Diploma in Mechanical Engineering (Tool & Die), Approved by AICTE and PSBTE – Chandigarh	CIHT/LT01	Month of June /July	4 years	8 hrs./day	60	10 th or 10+2 (Science/Vocational)/ ITI for lateral Entry	As per PSBTE Norms	As per AICTE and PSBTE- Chandigarh curriculum
20	3 Years Diploma in Computer Science & Engineering, Approved by AICTE and PSBTE – Chandigarh	CIHT/LT02	Month of June / July	3 years (6 Sem)	8 hrs./day	30	10 th or 10+2 (Science/Vocational)/ ITI for lateral Entry	As per PSBTE Norms	As per AICTE and PSBTE- Chandigarh curriculum

C. Short Term Skill Development Programmes: (CAD/ CAM Courses)

21	Post Diploma in CAD / CAM (NSQF Level-6)	MSME /PDCC/13	Every month	1 year 1560 HRS	6 hrs./day	40	Diploma / Degree in Mechanical,Production, Tool & Die Making / Automobile or equivalent.	65,000/-	<p>Theory: Engineering Drawing, CNC Part Programming, Computer Fundamentals, Finite Element Analysis (FEA), Reverse Engineering and Basic Engineering Concept.</p> <p>Software: Auto CAD, Solid works, CATIA, Pro-Engineer, Work NC, Master CAM and Unigraphics –NX</p> <p>Practical: Software Training and project work</p> <p>Specialized Course:Entrepreneurship and Managerial Skills, Safety and Maintenance</p>
22	Master certificate course in CAD/CAM (NSQF Level-6)	MSME /MCCCC/38	Every month	6 month 780 HRS	6 hrs./day	40	Diploma (Mech. Engineering or equivalent)	45,000/-	<p>Theory: CNC Programming and CNC Machining.</p> <p>Software: 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, , Course-work: Project</p> <p>Practical:Software Training</p> <p>Specialized Course: Employability & Entrepreneurship Skills .</p>

23	Advance Certificate Course in Inspection & Quality Control (NSQF Level-5)	MSME/ACCIQC / 56	Every month	6 month 780 HRS	6 hrs./day	40	10+2 with Science / Graduation in any discipline	30000/-	Theory: Engineering Drawing, Engineering Metrology, Workshop Calculation, Total Quality Management, Inspection (CMM), Software: AutoCAD, Master CAM, N.X (UNIGRAPHICS). Practical:software training, Inspection & Quality Control - On Job Training, CMM Specilized Course: Employability skill
24	AutoCAD – Mechanical	MSME / ACAD / 77	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Software Training : Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model for mechanical components, Apply mechanical rendering. Specialized Courses Observe & follow safety and Communicate effectively.
25	Solidworks	MSME/ SDWRKS / 78	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting. Specialized Courses Observe & follow safety and Communicate effectively.
26	CREO Parametric	MSME / CREO / 81	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
27	MasterCAM	MSME/MCAM/100	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	10200/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
28	Unigraphics	MSME / UNI / 79	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
29	CATIA	MSME /CATIA / 80	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses Observe & follow safety and Communicate effectively.
30	ANSYS	MSME / ANSYS / 82	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	11300/-	Software Training: Understand Finite Element Methods & GU of ANSYS, Perform Structural Analysis for 1D elements, Analysis of 2D Structure, Analysis of 3D Structure, Analysis of 1D, 2D, 3D Thermal Elements. Specialized Courses Observe & follow safety and Communicate effectively.

D. Short Term Skill Development Programmes: (PLC / Automation/ Electronics Courses)

31	Masters Certificate Course in Mechatronics (NSQF Level-6)	MSME/MCCM/39	Every month	6 month 780 HRS	6 hrs./day	40	Diploma in (Mechanical/ Electronics /Electrical / or equivalent	34,000/-	Theory: PLC, SCADA, Automation Techniques, Mechatronics systems, Sensor & Actuator, Industriaial Hydraulic & Pneumatic. Software: PLC (ALLEN BRADLEY), SCADA-Simens, LabView Robotino Practical: Hardware & software Training, working of Robotics, application of sensors, working principles robotic Buggy, Quardcopter and Robotic arm etc. Specilized Course: Employability & Entrepreneurship
32	E CAD	MSME/ECAD/91	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Practical: Software Training on E-CAD software, design different types of electrical circuits.

									Specialized Courses Observe & follow safety and Communicate effectively.
33	PLC programming	MSME/PLC/87	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Theory: Basic Electronics, Switching ,Logic Gates, Wiring of PLC, Broad knowledge of PLC programming, Practical: Software Training and Interfacining with PLC Panne apply ladder logic principles for solutions to the specific problems. Software: Software for PLC programming(allen Broadly) Specialized Courses Observe & follow safety and Communicate effectively.
34	SCADA	MSME/SCADA/88	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Practical : SCADA design, SCADA design principles , software for generating solutions in SCADA, communicate effectively, observe & follow safety Specialized Courses Observe & follow safety and Communicate effectively.
35	Embedded systems	MSME/ ES / 89	Every Month	96 Hrs.	4H rs./day	25	10 th Pass	8500/-	Practical : Embedded system, Programming Languages And Operation Of 32 Bit Microcontroller, Software For Generating Solutions In EMBEDDED SYSTEM. Specialized Courses Observe & follow safety and Communicate effectively.
36	VLSI	MSME/VLSI/90	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	8500/-	Practical: VLSI.code of component, Front-End & BACK-End Design principles, software for generating solutions in VLSI Specialized Courses Observe & follow safety and Communicate effectively.

E. Short Term Skill Development Programmes: (CNC Programming & machining Courses).

37	Master certificate course in CNC technology (NSQF Level-6)	MSME /MCCCT/41	Every month	6 month 780 HRS	6 hrs./day	40	Diploma (Mech. Engineering or equivalent)	45,000/-	Theory: Planning, sequenc of operations, Total Quality Management Software: CNC simulator for CNC Part programming, CAM software Practical: Software Training, Execution of Job, Arrangement of tools & accessories, Elements of tools with their Functions, Manufacturing Process & Process Plan, Tool & Die Manufacturing Plan, Mannual part programming, Execution of CNC Programme through CAM and Project work on live jobs. Specialized Course: Basic Health & Safety Practices, Business Communication, Entrepreneurship & Problem solving Skill ,
38	Certificate course in Machine Operations (NSQF Level-3)	MSME / CCMO /21	Every month	1 year 1560 HRS	6 hrs./day	40	8th pass	48,000/-	Theory: Machine Shop Theory, Engineering Metrology, Engineering Drawing, Workshop Calculation and Science. Practical: Machine Shop Lab and Project work on various Machine Specilized Course: OHS & Employability Skill
39	Certificate course in CNC turning (NSQF Level-4)	MSME /CCCT/55	Every month	6 month 780 HRS	6 hrs./day	40	10 th pass	36,000/-	Theory: Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation and Quality Management System Software: CNC Simulator for CNC Programming & Machining-Turning. Practical: CNC Machining & programming on CNC Lathe Machine and On Job Training Specilized Course: Group Discussion & Personality Improvement, OHS and Employability Skill,.
40	Certificate course in CNC milling (NSQF Level-4)	MSME/CCCM/ 54	Every month	6 month 780 HRS	6 hrs./day	40	10 th pass	36,000/-	Theory: Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation and Quality Management System Software: CNC Simulator for CNC Programming - Milling. Practical: CNC Machining & programming on CNC Milling Machine and On Job Training Specilized Course: Group Discussion & Personality Improvement, OHS and Employability Skill,.

41	Certificate course in CNC turning & Milling (NSQF Level-4)	MSME/CCCTM/25	Every month	1 year 1560 HRS	6 hrs./day	40	10 th pass	60,000/-	<p>Theory :Engineering Drawing, Engineering Metrology , Workshop Technology, Workshop Calculation & Quality Management System</p> <p>Software: CNC Simulator for CNC Programming & Machining (Turning & Milling), Computer Aided Drafting & Design (AutoCAD), Computer Aided manufacturing (Master CAM).</p> <p>Practical: software Training, CNC machining and On job training.</p> <p>Specilized Course:, Group Discussion & Personality Improvement and Employability skill .</p>
42	Condensed Course In Tool and Die Making (NSQF Level-4)	MSME/CCTDM/ 29	Every month	1 year 1560 HRS	6 hrs./day	40	10 th pass	100000/-	<p>Theory : "Production Technology, 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 & Industrial Management</p> <p>Software:, Auto CAD, CNC Part Programming, Master CAM.</p> <p>Practical: Software training, Tool Design, Mould design Practice , design of jigs & Fixtures, Machining process, Inplant Training & Project Work.</p> <p>Specilized Course: Communication Skill, Employability & Enterpreneureship Skill.</p>
43	Advance certificate course in CNC machining (NSQF Level-5)	MSME/ACCCM/35	Every month	1 year 1560 HRS	6 hrs./day	40	ITI Pass	65,000/-	<p>Theory: CNC programming & cnc machining, engineering metrology, quality assurance, total quality management, fundamentals of metal cutting tool and production planning & control (PPC).</p> <p>Software: computer aided manufacturing(Mastercam).</p> <p>Practical: Software Training, CNC machining, On job training and project work</p> <p>Specilized Course: Employability & Entrepreneurship.</p>
44	CNC Programming - Lathe	MSME/ CNCPL / 92	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/-	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Programme on CNC simulator, CNC Lathe Programming - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>
45	CNC Machining - Lathe	MSME/ CNCML / 93	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Machining Programme on CNC simulator, CNC Lathe Machining - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>
46	CNC Programming - Milling	MSME/ CNCMP / 94	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Programme on CNC simulator, CNC Milling Programming - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>
47	CNC Machining - Milling	MSME/ CNCMM / 95	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	9000/	<p>Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills</p> <p>Practical: Execute CNC Machining Programme on CNC simulator, CNC Milling Machining - On job training.</p> <p>Specialized Courses Observe & follow safety and Communicate effectively.</p>

F. Short Term Skill Development Programmes: (Computer Hardware / Programming Courses)

48	Advanced diploma in computer hardware & network management (adchnm) (NSQF	MSME / ADCHNM / 51	Every month	6 month 780 HRS	6 hrs./day	40	B.Sc./ Diploma/ degree Engineering Pass	30000/-	<p>Theory: Basic Electronics, Power Supply, PC Architecture and Network, Essential, setup & management</p> <p>Software Training:Operating system, MS office, Linux, LAN</p> <p>Practical :Software Installation, Up gradation & Maintenance, Power supply, Network management & server configuration, LINUX management & network configuration, Basic Electronics</p>
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	Level-6)								Office Package Specilized Course: Employability and Communication Skill
49	Graphics & Web Designing (NSQF Level-5)	MSME / ANI / GWD	Every month	4 Months 390 Hrs	4 hrs./Day	40	10+2 pass	24000/-	Theory: Fundamentals of computer & Introduction of computer graphics. Software: Adobe Photoshop, Corel Draw, Adobe Illustrator, Adobe In Design, Web Designing and Project work. Practical: Software Training. Specilized Course: Employability & Enterpreneuship skills.
50	JAVA	MSME/JAVA/99	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Practical: Java and Understand JVM and Its Architecture, Control Statement And Looping, Class and Object, Constructor, Array, Inheritance, Package, string, HTML,CSS, java script, JSP etc. Specialized Courses Observe & follow safety and Communicate effectively
51	Computer Hardware & Networking	MSME/CHN/102	Every Month	96 Hrs.	4Hrs./day	25	10 th Pass	6800/-	Practical: Basic Electronics, Computer Software, Computer Hardware and Networking Specialized Courses Observe & follow safety and Communicate effectively

G. Placement oriented Skill Development Programmes for Rural Youth of Punjab Under DDU-GKY Project

52	Certificate course in CNC turning (NSQF Level-4)	MSME /CCCT/55	Every Month	6 month 1081 HRS	8 hrs./day	35	10 th pass	Sponsored by PSDM- Chandigarh	Theory: Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation and Quality Management System Software: CNC Simulator for CNC Programming & Machining-Turning. Practical: CNC Machining & programming on CNC Lathe Machine and On Job Training Specilized Course: Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
53	Certificate course in CNC milling (NSQF Level-4)	MSME/CCCM/ 54	Every Month	6 month 1081 HRS	8 hrs./day	35	10 th pass	Sponsored by PSDM- Chandigarh	Theory: Engineering Drawing, Engineering Metrology, Workshop Technology, Workshop Calculation and Quality Management System Software: CNC Simulator for CNC Programming - Milling. Practical: CNC Machining & programming on CNC Milling Machine and On Job Training Specilized Course: Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
54	Advanced diploma in computer hardware & network management (adchnm) (NSQF Level-6)	MSME / ADCHNM / 51	Every Month	6 month 1081 HRS	8 hrs./day	35	B.Sc./ Diploma/ degree Engineering Pass	Sponsored by PSDM- Chandigarh	Theory: Basic Electronics, Power Supply, PC Architecture and Network, Essential, setup & management Software Training: Operating system, MS office, Linux, LAN Practical : Software Installation, Up gradation & Maintenance, Power supply, Network management & server configuration, LINUX management & network configuration, Basic Electronics Office Package Specilized Course: Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
55	Master certifice course in CAD/CAM (NSQF Level-6)	MSME /MCCCC/38	Every Month	6 month 1081 HRS	8 hrs./day	35	Diploma (Mech. Engineering or equivalent)	Sponsored by PSDM- Chandigarh	Theory: CNC Programming and CNC Machining. Software: 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, , Course-work: Project Practical: Software Training Specilized Course: Soft skills, English Skills, Computer

									skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
56	Masters Certificate Course in Mechatronics (NSQF Level-6)	MSME/MCCM/39	Every Month	6 month 1081 HRS	8 hrs./day	35	Diploma in (Mechanical/ Electronics /Electrical / or equivalent	Sponsored by PSDM- Chandigarh	Theory: PLC, SCADA, Automation Techniques, Mechatronics systems, Sensor & Actuator, Industrial Hydraulic & Pneumatic. Software: PLC (ALLEN BRADLEY), SCADA-Simens, LabView Robotino Practical: Hardware & software Training, working of Robotics, application of sensors, working principles robotic Buggy, Quadcopter and Robotic arm etc. Specilized Course: Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
57	Master certificate course in CNC technology (NSQF Level-6)	MSME /MCCCT/41	Every Month	6 month 1081 HRS	8 hrs./day	35	Diploma (Mech. Engineering or equivalent)	Sponsored by PSDM- Chandigarh	Theory: Planning, sequenc of operations, Total Quality Management Software: CNC simulator for CNC Part programming, CAM software Practical: Software Training, Execution of Job, Arrangement of tools & accessories, Elements of tools with their Functions, Manufacturing Process & Process Plan, Tool & Die Manufacturing Plan, Mannual part programming, Execution of CNC Programme through CAM and Project work on live jobs. Specialized Course: Basic Health & Safety Practices, Business Communication, Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.
58	Post Diploma in CAD / CAM (NSQF Level-6)	MSME /PDCC/13	Every Month	1 Year 1081 HRS	8 hrs./day	35	Diploma / Degree in Mechanical,Production, Tool & Die Making / Automobile or equivalent.	Sponsored by PSDM- Chandigarh	Theory: Engineering Drawing, CNC Part Programming, Computer Fundamentals, Finite Element Analysis (FEA), Reverse Engineering and Basic Engineering Concept. Software: Auto CAD, Solid works, CATIA, Pro-Engineer, Work NC, Master CAM and Unigraphics –NX Practical: Software Training and projevt work Specilized Course: Entrepreneurship and Managerial Skills, Safety and Maintanance, Soft skills, English Skills, Computer skills, Group Discussion & Personality Improvement, OHS and Employability Skill.

H. Capacity Bulding Training Program For aspiring and existing enterprenure of SC/ ST Community under National SC/ST hub

59	AutoCAD – Mechanical	MSME / ACAD / 77	Wef: November-2019	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Software Training : Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model for mechanical components, Apply mechanical rendering. Specialized Courses: Employability & Enterprenureship skills , Observe & follow safety and Communicate effectively.
60	Solidworks	MSME/ SDWRKS / 78	-do-	136 Hrs.	4 Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting. Specialized Courses: Employability & Enterprenureship skills , Observe & follow safety and Communicate effectively.
61	CREO Parametric	MSME / CREO / 81	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting Specialized Courses: Employability & Enterprenureship skills , Observe & follow safety and Communicate effectively.
62	CNC Programming - Lathe	MSME/ CNCPL / 92	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Programme on CNC simulator, CNC Lathe Programming - On job training. Specialized Courses: Employability & Enterprenureship

									skills , Observe & follow safety and Communicate effectively.
63	CNC Machining - Lathe	MSME/ CNCML / 93	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Machining Programme on CNC simulator, CNC Lathe Machining - On job training. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
64	CNC Programming - Milling	MSME/ CNCMP / 94	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Programme on CNC simulator, CNC Milling Programming - On job training. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
65	CNC Machining - Milling	MSME/ CNCMM / 95	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Machining Programme on CNC simulator, CNC Milling Machining - On job training. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
66	Computer Hardware & Networking	MSME/CHN/102	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Practical: Basic Electronics, Computer Software, Computer Hardware and Networking Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
67	PLC programming	MSME/PLC/87	-do-	136 Hrs.	4Hrs./day	25	10 th Pass	Sponsored by National SC/ST Hub, M/o MSME	Theory: Basic Electronics, Switching ,Logic Gates, Wiring of PLC, Broad knowledge of PLC programming, Practical: Software Training and Interfacining with PLC Panne apply ladder logic principles for solutions to the specific problems. Software: Software for PLC programming(allen Broadly) Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.

I. Entrepreneurship cum Skill development Program Under E-SDP scheme of M/o MSME, Govt. Of India.

68	AutoCAD	E-SDP	Wef: Sept-2019	6 week	6Hrs./day	25	10 th Pass	Sponsored by M/o MSME	Software Training : Create 2D sketch, Edit of models, Understand the layer management & block, Create solid model for mechanical components, Apply mechanical rendering. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
69	Solidworks	E-SDP	-do-	6 week	6Hrs./day	25	10 th Pass	Sponsored by M/o MSME	Software Training: Create 2D sketch, Design Solid Model, Develop surface Model, Build Assembly Design, Generate drafting. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
70	CNC Programming	E-SDP	-do-	6 week	6Hrs./day	25	10 th Pass	Sponsored by M/o MSME	Theory: List different Cutting tooling standards , Develop mathematical / Analytical skills Practical: Execute CNC Programme on CNC simulator, CNC Programming - On job training. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.
71	Basics of Computer Concepts	E-SDP	-do-	6 week	6Hrs./day	25	10 th Pass	Sponsored by M/o MSME	Theory: Fundamentals of computers and various Hardware components Practical: Introduction & Application of MS Word, Excell, powerpoint, operating sstems, Installation & Maintenance of of Windows, use of antivirus software. Specialized Courses: Employability & Enterpreneursip skills , Observe & follow safety and Communicate effectively.

72	Web Designing	E-SDP	-do-	6 week	6Hrs./day	25	10 th Pass	Sponsored by M/o MSME	Theory: Introduction to web designing, CSS. Html, Html 5, and Java Script Practical: software training on Development of Website, application of Java Script, CSS, Html and Various Tags etc., Specialized Courses: Employability & Entrepreneurship skills and Communicate effectively.
73	Electrical gadget repair	E-SDP	-do-	6 week	6Hrs./day	25	8 th Pass	Sponsored by M/o MSME	Theory: Safety Precautions, Types of wiring, and introduction to electrical power circuit Practical: 1 Phase & 3 Phase wiring, House wiring, types of fuses, repair & maintenance of electrical Gadgets Specialized Courses: Employability & Entrepreneurship skills, Observe & follow safety.

J. SIYB : Start & Improve your Business Under ESDP scheme of M/o MSME, Govt. Of India.

74	SIYB	ESDP-SIYB	Wef: Sept-2019	25 working days	8Hrs./day	25	8 th Pass	Sponsored by M/o MSME	MODULE 1 - Generate Your Business Idea (GYB) [5 Days] MODULE 2 - Start Your Business (SYB) [5 Days] MODULE 3 - Institutional Support Systems to Pursue Entrepreneurship & and Procedural Guidance [5 Days] MODULE 4 - Managing Your Business [5 Days] MODULE 5 - Manage & Improve Your Business: Expansion, Modernisation & Diversification [5 Days]
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K. SCORE : Sustaining Competitive and Responsible Enterprises Programme Under ESDP scheme of M/o MSME, Govt. Of India.

75	SCORE	ESDP-SCORE	Wef: Sept-2019	25 working days	8Hrs./day	25	8 th Pass	Sponsored by M/o MSME	
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Note:- 1. Classes on evenings/Saturdays – Sundays are also organized depending upon the number of participants.

2. CIHT also organize short term tailor made program on specific requirement of industry as well as technical institutions.

Admission Procedure:-

- Eligible candidates will be offered admission on first-cum-first-served basis.
- Candidates seeking admissions should submit application on prescribed form (CIHT Registration Form) along with copies of following documents:
 - Attested Copy of Aadhaar Card (Compulsory for admission in any courses).
 - Attested copy of qualification details as required for the respective courses.
 - Attested Copy of age proof.
 - Two passport size photographs.
 - Attested copy of Cast Certificate
- Incomplete applications are liable to be rejected.
- No Tuition fee will be charged from SC/ST candidates as per rule of Govt. of India subject to production of authentic cast certificate issued by competent authorities only.
- Examination Fee of Rs. 200/- (excluding tuition fee) to be paid by each candidate for NSQF compliant Courses.
- Course fee is inclusive of GST charges as applicable.
- Refundable Security of Rs. 1000/- to be paid at the time of admission, which will be refunded after the course completion & issuance of certificate.

8. Institute reserve the right to incorporate changes in proposed schedule dates / Batch size without assigning any reason.
9. Placement Assistance will be provided on successful course completion & issuance of certificate.
10. Hostel facility may be provided subject to availability.
11. Visit <http://www.msde.gov.in/nsqf.html> for more information about NSQF compliant courses.
12. For more details about the admission under different Scheme / courses may contact at following numbers:
 - ☐ 9465146877, 7986832232, 9417851285, 9915466844, 0181- 2290196, 2290226, 2290008, Fax: 0181-2290457
 - ☐ Email: info@ciht.in, cihtjd@gmail.com, Website: www.ciht.in

Profile & Objective of CIHT Jalandhar:

- ✓ Central Institute of Hand Tools (MSME Tool Room, Jalandhar) is a premier organization responsible for the development of Hand Tool Industry in the country. Government of India has set up Central Institute of Hand Tools as a National Institute in Jalandhar (Punjab) as an autonomous organization with the assistance of U.N.D.P. and Govt. of Punjab in the year 1983, with a view to provide trained manpower and technology support services to Engineering industry in general & Hand tools industries in particular. The institute is ISO-9001:2008, ISO-14001:2004 certified and having NABL accredited Lab.
- ✓ CIHT, Jalandhar imparting Engineering Education in various skill development courses which has greater demand in the industries in the field of Product Design & Development, CAD/CAM, CNC Programming & Machining, Mechatronics/ Automation with PLC, Welding, Electrician and Quality Control etc. and providing services to the Engineering industries in various areas such as Tool Room, Heat Treatment, Testing & Quality Control.
- ✓ CIHT organized various Govt. sponsored training programs such as Residential Training Program in the field of Basic welding and Certificate course of electrician for candidates related to NE Region of M/O Development of North Eastern Region, TEDP under DST-NIMAT Project of M/O science & Technology, Govt. of India, Entrepreneurship skill development program of M/O MSME, Govt. of India, Employment through skill training & Placement of Punjab Skill development Mission (PSDM) and PMKVY-TI (AICTE).
- ✓ The management of the institute rests with the Governing Council appointed by the Govt. of India, with Development Commissioner, Ministry of MSME as ex-officio chairman of the institute, The Principal Director is the Chief Executive Officer of the Institute, Other members include the Govt. officials and the industrialists from the industry.