CRAFTSMEN TRAINING SCHEME (CTS)

The National Skill Training Institute (NSTI), Government India, Ministry of Skill Development & Entrepreneurship, Regional Directorate of Skill Development & Entrepreneurship at Mumbai, is conducting Craftsmen Training Scheme (CTS) under the aegis of NCVET. The session will be commenced from1st July/August, in the following trades:-

SL. NO.	TRADES AVAILABLE	SANCTIONED SEATS	DURATION
1	IoT (Smart Health Care)	24 Seats	01 Year
2	Solar Technician(Electrical)	20 Seats	01 Year

ELIGIBILITY

10th class or its equivalent with Science and Maths

Online application is invited on www.nimionlineadmission.in from the eligible candidates desiring admission.



ADVANCE DIPLOMA

Directorate General of Training (DGT), Ministry of Skill Development and Entrepreneurship (MSDE) has signed a Memorandum of Understanding (MoU) with IBM India Private Limited in Feb 2018 to offer Advanced Diploma in 'IT, Networking and Cloud Computing ' by using high-end skill training facilities at NSTIs. IT, Networking and Cloud is very much essential in the current scenario due to lot of demand in oftware industries where every industry is using cloud as base.

A CANDIDATE WHO HAS COMPLETED THIS COURSE:

- Can start their own enterprise on cloud maintenance, computer hardware maintenance, website development etc.
- Can apply for jobs in industry as system technician, cloud developer, web designer etc.
- Can apply for any job as a regular diploma holder.
- Can apply for lateral entry to higher studies like B. Tech.

COURSE STRUCTURE:

The course is of two years duration. In the first year there are five core modules. Each module is of 320 hours. In the second year, the trainees will be taking two elective modules out of three electives each of 320 hours and will be doing on the job training in industry for 800 hours. In addition the trainees will pick up employability skills for 160 hours.

ON THE JOB TRAINING

In the second year, the trainees will be taking two elective modules out of three electives each of 320 hours and will be doing on the job training in industry (IBM) for 800 hours. In addition the trainees will pick up employability skills for 160 hours.

Online application is invited on www.nimionlineadmission.in from the eligible candidates desiring admission.

CRAFT INSTRUCTOR TRAINING SCHEME (CITS)

National Skill Training Institute Mumbai established by Government of India, Ministry of Skill Development & Entrepreneurship, offers Craft Instructor Training under CITS of one year duration for various trades combining Trade Technology(TT), Engineering Technology (ET) and Training Methodology (TM). Primary objective of this Institute are to train the Vocational Instructors of various Industrial Training Institutes / Centres and other training establishment. Training of Craft Instructors is the mandated responsibility of DGT and It has been operational since the inception of the Craftsmen Training Scheme (CTS). Comprehensive training both in skills and training methodology is imparted to the instructor trainees to make them conversant with techniques of transferring hands-on skills, to train skilled manpower for the industry.

PROGRAMME STRUCTURE:

The duration of Crafts Instructor Training is One year. Combination of Subjects: The following subjects are covered

Comprising of Basic & Advanced components of trade practice and theory

Engineering Technology

Comprising of Workshop Calculations & Science and **Engineering Drawing**

Training Methodology

Comprising of Teaching Practice and Principles of Teaching

Start of session: 1st August of every year.

ADMISSION & AWARD OF CERTIFICATE

Admission is done through All India Common Entrance Test which is conducted centrally by DGT HQ.

Candidates can enroll for the above programme for one vear. A candidate has to secure 60 % Sessional marks in Theory and Practicals and also have a minimum of 80 % attendance. On possessing the above requisites, candidates will be allowed to appear for the final examination conducted by NCVT, New Delhi in June/July every year. On passing the prescribed exam, trainees will be awarded the Instructor training Certificate from NCVT.

Online application is invited on www.nimionlineadmission.in from the eligible candidates desiring admission.

TRADES AVAILABLE UNDER CITS AT THIS INSTITUTE

	1	Computer Software Application (CSA)	100 Seats
	2	Draughtsman Mechanical	50 Seats
	3	Electrician	100 Seats
	4	Electronics Mechanical	50 Seats
	5	Turner	50 Seats
	6	Fitter	150 Seats
	7	Machinist	75 Seats
	8	Instrument Mechanic	50 Seats
	9	Mechanic Motor Vehicle	50 Seats
1	0	Welder (G&E)	50 Seats



TUITION FEE STRUCTURE FOR SHORT TERM COURSES

0-1	Fee per Week per Trainee				
Category	Regular Course	Tailor made course			
Medium/Large Scale Industries both Pvt & Public Sectors	Rs.2000/-	Rs.4000/-			
Small Scale Industries (SSI) & Private Candidates	Rs.1000/-	-			
Govt. Department e.g. Railways/ Defence etc.	Rs.1250/-	Rs.2500/-			
Educational Institutes like Polytechnics, Engineering Colleges etc.	Rs.1000/-	Rs.2000/-			

Hostel Rent Rs.100/- per trainee per day (on sharing basis)

Gymkhana Fee Rs.10/-For Regular courses per trainee

per course payable in cash at the time of admission.

For Tailor made courses per trainee per course payable in cash

> at the time of admission Completed application should

Registration Charges: Rs.100/reach the Institute at least 20 days before the commencement

of the course. Apply separately for each course

Tuition & Registration Fee will be paid through government website

: bharatkosh.gov.in for private candidates

Tuition Fee and Registration charges please pay by Cheque or DD in favour of "PAO, MSDE, MUMBAI" for deputed candidates

ENTRY QUALIFICATIONS

- · Degree / Diploma in relevant branch of Engineering or NTC /NAC with 2/3 in relevant trade experience.
- For Industrial Chemistry : B.Sc. with Chemistry
- For SCADA Programming & Application Knowledge of PLC Programming & Applications
- For Computer Awareness & MS Office: S.S.C. / H.S.C.
- For Basic Car Maintenance: S.S.C./ H.S.C. with Driving Licence.

FOR SPONSORED CANDIDATES

Candidates with Matriculation or equivalent with Science and Maths with 3/5 years trade experience and sponsored by Industry, Ministry / Organisation.

- The Regional Director may change/cancel any programme without assigning reason.
- If Monday is holiday, the scheduled course will commence on next working day and if Friday is holiday the course will conclude on the previous working day.
- Nominees/participants should not start their journey for joining any course without receiving confirmation from this Institute. If confirmation is not received, it may be obtained over telephone or e-mail to avoid embarrassment due to cancellation of the course by chance.
- At the end of the courses, Certificate will be issued to the trainees who have successfully completed the course with attendance of 80% and above only.
- Application / Nominations received without prescribed application cum registration charges will be rejected.
- Xerox copies of Qualification (Marksheet), experience should be attached with application, · Original Marksheet should be produced at the time of
- Application / Nominations should reach this Institute at least
- 3 weeks prior to the date of commencement of course. · Seats will be confirmed to selected candidates only.

FOR FURTHER DETAILS, CONTACT:

The Regional Director. National Skill Training Institute V. N. Purav Marg, Sion, Mumbai-400 022.

Website: nstimumbai.dgt.gov.in







GOVERNMENT OF INDIA M/O SKILL DEVELOPMENT & ENTREPRENEURSHIP **DIRECTORATE GENERAL OF TRAINING**

NATIONAL SKILL TRAINING INSTITUTE

V. N. Purav Marg, Chunabhatti, Sion (East), Mumbai - 400 022. Phone: 91-22-2405 35 60

E-mail: atimumbai@nic.in Website: nstimumbai.dgt.gov.in

SHORT TERM TRAINING CALENDAR :2022-2023

Short Term Courses Conducted for Reskilling and Upskilling



ST.1 ADVANCED ELECTRONICS				
Course Name	Duration (Weeks)	Intake Capacity	From	То
PLC Programming and Applications (Rockwell Automation & Siemens)	2	10	12.12.22 13.02.23	23.12.22 24.02.23
Rockwell Automation PLC and SCADA Programming	2	10	23.01.23	03.02.23
Advanced PLC and SCADA Programming (Control Logix L61)	2	10	13.03.23	24.03.23
Introduction and Programming of Microprocessor(8085) and Microcontroller(8051)	2	10	02.01.23	13.01.23

BRIEF COURSE CONTENTS (ST.1 ADVANCED ELECTRONICS)

Course Name	Brief Course Contents
PLC Programming and applications (Rockwell automation & Siemens)	PLC General features/advantages. Selection of IO Modules Ladder Programming techniques Instruction set for Rockwell(Allenbradley) and siemens. Simple Program with Rockwell/Siemens PLC
cockwell Automation PLC and SCADA Programming	Rockwell PLC General features/advantages. Selection of IO Modules Ladder Programming techniques Instruction set for Rockwell(Allenbradlev). Features of SCADA.

Advanced PLC and SCADA Programming (Control Logix L61)

PLC General features/advantages. Selection of IO Modules Ladder Programming techniques Instruction set for Rockwell (Allenbradley). Simple Program with Control logix L5661, Features of SCADA. Simple Program with Factory talk Activation SCADA

Simple Program with Factory talk Activation SCADA

Introduction and Programming of Microprocessor (8085) and Microcontroller (8051) Basics and architecture 8085, Types of Instruction sets, Assembly language programming, 8051 Programming, Indroduction about arduino

SHORT TERM TRAINING COURSES FOR THE YEAR 2022-2023

				SH
ST.2 ADVANCED W	/ELD	ING		
Course Name	Duration (Weeks)	Intake Capacity	From	То
Gas Tungsten Arc Welding on Aluminium Plate	1	12	02.01.23	13.01.23
Gas Tungsten Arc Welding on Stainless Steel Plate	1	12	06.02.23	10.02.23
Gas Metal Arc Welding on Stainless Steel Plate (MIG)	1	12	20.02.23	24.02.23
(GMAW) CO2 Welding(MAG)	1	12	06.03.23	10.03.23
Plasma & Oxy-Fuel Gas Cutting on Ferrrous & Non - Ferrous Metals	1	12	20.03.23	24.03.23
Submerged Arc Welding (SAW)	1	12	12.12.22	16.12.22
ST.3 AUTOMOBILE				
Course Name	Duration	Intake Capacity	From	То
Maintenance, servicing and overhauling of Auto Electrical / Electronic system	1	15	05.12.22	09.12.22
Maintenance, servicing and overhauling of Automotive Petrol Engine	1	10	02.01.23 27.02.23	02.01.23 27.02.23
Maintenance, servicing and overhauling of Automotive Diesel Engine.	1	15	16.01.23	20.01.23
Basic car Maintenance	1	15	30.01.23 13.03.23	03.02.23 17.03.23
Basic Servicing and Maintenance of Electric Vehicle	1	10	19.12.22 06.02.23	23.12.22 10.02.23
ST.4 ELECTRICAL	MAII	NTEN	IANCE	
Course Name	Duration (Weeks)	Intake	From	То
AC Drive (SIEMENS MICROMASTER -440)	1	10	13.03.23	17.03.23
AC Electric Motors- Testing, Operation & Maintenance	2	10	02.01.23	13.01.23
Starter Soft Starter	1	10	26.12.22	30.12.22
ST.5 INDUSTRIAL	CHE	MIST	RY	
O N I	Duration (Weeks)	Intake Capacity	From	То
Analysis by High Performance Liquid Chromatography (Basic - Isocratic)	1	10	06.02.23 13.03.23	10.02.23 17.03.23
Analysis by Gas Chromatography	2	10	30.01.23 20.03.23	03.02.23 24.03.23
The second second second second				

KLIEKI		RAINING COU			
BRIEF COURSE CONTENTS (ST.2 ADVANCED WELDING)					
Course Name		Brief Course Contents			
Gas Tungsten Arc Wel on Aluminium Plate	ga	uminum and its properties, type of machine, inert s, and tungsten alloy electrode, fusion of aluminum etal & filler rod, hand on practice with different sition /joint on aluminum metal.			
Gas Tungsten Arc Weld on Stainless Steel Plate	ding Sta	ainless steel and its properties, type of machine, ert gas, and tungsten alloy electrode, fusion of ainless steel & filler rod, hand on practice with ferent position/joints on stainless steel metal.			
Gas Matel Arc Welding Stainless Steel Plate (MIG) sys	Iding safety, Process feature, power sources, wire feed tem, selection of welding parameters, shielding gases, iding defects, hand on practice with different joints & position			
(GMAW) Co2 Welding (MAG)	win	elding safety, Process feature, power sources, refeed system, selection of welding parameters, tive gas, welding defects, hands on practice with ferent joints & position			
Plasma & Oxy-Fuel Gas C on Ferrous & Non Ferrous	Metals co	Safety related to various metals cutting processes, oncept & need for plasma cutting, straight & bevel utting on ferrous & non-ferrous metal.			
SAW - Submerged Arc Welding	of of	elding safety, Process feature, power sources, setting SAW plant, principle of SAW, wire feed system, selection welding parameters, welding defects, hands on practice h different joint/position			
BRIEF COURSE	CONTE	NTS (ST.3 AUTOMOBILE)			
Course Name		Brief Course Contents			
Maintenance, servici and overhauling of A Electrical / Electronic	uto	Trouble tracing in wiring Circuits. Trace wiring and prepare wiring diagram. Servicing Electrical Components of vehicle			
Maintenance, servici and overhauling of Automotive Petrol Er		Maintenance of Petrol Engine. Servicing different sub systems of Petrol Engine. Petrol Engine Tune UP			
Maintenance, servicing and overhauling of Automotive Diesel Engine.		Maintenance of Diesel Engine. Servicing different sub systems of Diesel Engine. Diesel Engine Tune UP			
Basic car Maintenance		Preventing and periodic Maintanance of Car. Understand Various system of Car. Car Washing and Servicing			
Basic Servicing and Maintenance of Electric Vehicle		Basic maintenance Electrical vehicle. Understand different parts of EV.			
BRIEF COURSE	CONTE	NTS (ST.4 ELECTRICAL MAINTENANCE)			
Course Name		Brief Course Contents			
AC Drive (SIEMENS MICROMASTER -440)	Basics of AC Drives, Features, Installation, Commissioning,				
AC Electric Motors - Testing, Operation & Maintenance	Three Phase Motors: Squirrel Cage Induction Motors, Slip ring induction motors, double squirrel cage induction motors, synchronous motor; Single phase motors: Capacitor induction motor, repulsion motor, universal motor, shaded pole motor; Types of enclosures; Motor Protection; Power factor. Testing, troubleshooting & Maintenance of AC Motors and controls.				
Starter Soft Starter	Starter Soft Starter Starters: DOL, Auto transformer & Star-delta starters (manual semiautomatic, automatic) Soft Starter: Description, Mountin Connections, HMI, Setting & Configuration, Maintenance Functions, Trouble Shooting, Applications.				
BRIEF COURSE	CONTE	NTS (ST.5 INDUSTRIAL CHEMISTRY)			
Course Name		Brief Course Contents			
Analysis By High Performance Liquid Chromatography (Basic - Isocratic)	Introduction of Liquid Chromatography. Instrumentation of HPLC & it's calibration, analysis of different samples single & mixtures. Determination of assays of different samples. Determination of caffeine content of cold drink, tea, coffee etc.				
Analysis by Gas Chromatography	tea, coffee etc. Introduction, principle, instrumentation, separation & temperature programming of Gas Chromatography. Analysis of different samples like binary, tertiary, quaternary or more combination including temperature programming. Determination of % composition of sample mixture by calibration curve, internal standard, external standard method.				

LOI OK II	<u></u>			
ST.6 MACHINE TO	OL N	IAIN	ΓENAN	CE
Course Name	Duration (Weeks)		From	То
Preventive Maintenance	1	15	05.12.22	09.12.22
of Machine Tools			02.01.23	06.01.23
			13.02.23	17.02.23
			27.03.23	31.03.23
Bearing & lubrication	1	15	12.12.22	16.12.22
bearing a lubrication		.0	09.01.23	13.01.23
			20.02.23	24.02.23
			20.03.23	24.03.23
Repair & Maintenance	1	15	19.12.22	23.12.22
of Lathe & Milling Machine		13	16.01.23	20.01.23
ŭ				
ST.7 ADVANCED	τοοι	& D	IE MAK	ING
Course Name	Duration (Weeks)	Intake	Erom	То
Jig & Fixture Making	1	10	06.02.23	10.02.23
Jig & Fixture Making	'	10	00.02.23	10.02.23
Tool Doom Drawinian March	4	40	12.02.00	17.00.00
Tool Room Precision Machine	1	10	13.03.23	17.03.23
anno martino de la companio de la c				
ST.8 CNC				
Course Name	Duration (Weeks)		From	То
CNC Programming and	2	10	05.12.22	16.12.22
Machining on Turning	_		02.01.23	13.01.23
(Fanuc / Siemens)			30.01.23	10.02.23
			13.02.23	24.02.23
			06.03.23	17.03.23
			20.03.23	31.03.23
ST.9 PROCESS CONT	ROL			
Course Name	(Weeks)	Capacity	From	То
Honeywell DCS programming and Applications	1	10	05.12.22	09.12.22
and Applications			23.01.23	27.01.23
Process Instrumentation	1	10	12.12.22	16.12.22
and control			06.02.23	10.02.23
			20.03.23	24.03.23
DID controller and Tunning	1	10	02.01.23	06.01.23
PID controller and Tunning	1	10	20.02.23	24.02.23
			20.02.23	24.02.23
Smart Process Devices	1	10	16.01.23	20.01.23
and its applications			06.03.23	10.03.23
ST.10 UNIT OPERA	TION	I LAE	3	
Course Name	Duration		From	То
	1	15	13.02.23	17.02.23
Operations and Maintenance of Pumps & Valves	- 1	13		
or r unipo a vaivos			03.03.23	07.03.23
Heat Transfer Operations	1	10	27.02.23	03.03.23
ricat fransier Operations	'	10	24.03.23	28.03.23
			24.00.20	20.03.23
ST.11 RENEWABLE				
Course Name	Duration (Weeks)		From	То
Designing, Testing &		20	05.12.22	09.12.22
	1	20		
Maintenance of	1	20	20.03.23	24.03.23
Maintenance of Solar PV System				
Maintenance of Solar PV System Installation & Commissioning	1	20	20.03.23	24.03.23 10.02.23
Maintenance of Solar PV System	1	20	06.02.23	10.02.23

-2	2023					
S.I	BRIEF COURS	SE CONTENTS (ST.6 MACHINE TOOL MAINTENANCE)				
W	Course Name	Brief Course Contents				
	Preventive Maintenance of Machine Tools	Theory & Practical - Introduction to Machine Tool Maintenance, Selection and maintenance of lubricants, Maintaining history card and inspection records of machines, PM sheet, machine tool repair and inspection. Types of lubrication, Preventive Maintenance of Various machine tools, Dismantling and overhauling				
	Bearing & Lubrication	Theory & Practical - Bearing - types, specification, and inspection, Bearing selection, bearing failures, causes and remedy, Lubricant types, characteristics, oil selection and lubrication methods, Condition monitoring of bearings Failure AnalysisMounting of bearing using Bearing mounting kit, Mounting of bearing using Induction heater,Bearing Analysis meter.				
	Repair & Maintenanc of Lathe & Milling Machine	e Theory & Practical - Introduction of Lathe & Milling machine, functioning, Dismantling & assembly of various parts of lathe & milling machine.				
	BRIEF COURS	SE CONTENTS (ST.7 ADVANCED TOOL & DIE MAKING)				
86	Course Name	Brief Course Contents				
	Jig & Fixture Making	Theory & Practical -Introduction of jig making ,Various types of jig, Parts, Function Design of jig, fixture, Types of fixture , types of fastener, clamps & locating.				
	Tool Room Precision Machine	Theory & Practical -Industrial Safety, Introduction of jig boring machine , decal milling machine, Optical profile grinder & pantograph machine, All types of tool room machine, all milling cutter and holding device				
7	BRIEF COUR	SE CONTENTS (ST.8 CNC)				
	Course Name	Brief Course Contents				
	CNC Programming and Machining on Turning (Fanuc / Siemens) Introduction to NC, CNC & historical perspective of CNC, Introduction to CNC Control panelAxes designation, Co ordinate system, work Off set, Canned Cycles & Practical, Introduction to Roughing and finishing cycles-G71 & Practical & G70, RoughinG72 & Practical, Grooving Cycles-G76 & Practical, Drilling Cycles-G74 & Practical, Threading Cycle-G76 & Practical, Stock removal/ Finishing/grooving & Practical, Threading Cycle/Practical/Test, Practical on different Modes of Operations					
П	BRIEF COURSI	E CONTENTS (ST.9 PROCESS CONTROL INSTRUMENTATION)				
	Course Name Brief Course Contents					
X	Honeywell DCS programming and Applications	Basics of DCS, architecture, familiarisation on Configuration studio, Digital I/O controls, Analog I/O controls, Programing on Digital logics and feed back control loops				
	Process Instrumentation and control	Various process measuring sensors and transmitters testing, Testing of Final control element (control valve), Testing and tuning of Various PID control loops				
	PID controller and Tunning	Basics of PID controllers, various FCE, PID controller various tunning parameters, Interfacing and testing of sensors and FCE, Tuning and testing on various PID loops				
	Smart Process Dev and its applications					
8	BRIEF COURSE CONTENTS (ST.10 UNIT OPERATION LAB)					
	Course Name	Brief Course Contents				
	Operation and Maintenance of Pumps & Valve	Maintenance, Overhauling & Troubleshooting of 1. Different types of Pumps-volute / turbine centrifugal pumps, multi-stage centrifugal, spur gear pump, reciprocating (Piston & Plunger), mono screw pump. plunger type metering pump, double diaphragm pump, oil ring and water ring vacuum pumps. etc. 2. Different types of Valves gate - valves, globe valves, butterfly valves, ball valves, needle valves. non-return valves- foot valves, check valves lift & swing types, safety valves, pneumatic control valve, solenoid valve, etc.				
	Heat Transfer Operat					
	BRIEF COUR	SE CONTENTS (ST.11 RENEWALBLE ENERGY)				
	Course Name	Brief Course Contents				
	Designing, Testir & Maintenance of Solar PV System	specifications; Panel sizing; Charge controllers; Protection circuits; Modular projects;				
	Installation &	Solar system & Earth features influencing Solar PV Electrical system: Components of				

Solar system & Earth features influencing Solar PV Electrical system; Components of a SPV Electrical system; Types; Applications; bill of materials; Test points; Test before & after commissioning; Safety handling; storing; Tools and equipments; Solar panel Mounting skills; Foundation planning and construction skills; Electrical wiring skills; Safety points; Commissioning skills; Maintenance skills

Installation & Commissioning Skills of Solar PV System