

SKILL TALKS

Directorate General of Training
Ministry of Skill Development and Entrepreneurship



Wishing our readers a Very Happy and Healthy New Year- 2021

News & Events Jan - 2021

1. PMKVY 3.0 in the STRIVE selected ITIs (Pilot basis)



The Hon'ble Union Minister MSDE, Dr. Mahendra Nath Pandey launched 3rd phase of Pradhan Mantri Kaushal Vikas Yojana (PMKVY) 3.0 on January 15, 2021, in a virtual ceremony alongwith Sh. R. K. Singh, Hon'ble Minister of State, MSDE. The focus is now on bridging the demand and supply gap by promoting skill development in the areas of new age and industry 4.0 job roles.

The PMKVY was designed and launched in 2015 as the flagship skilling scheme to impart skill development training among the youth of the country to tackle the unique problem of demand for skilled manpower.

PMKVY 3.0 Training for ITIs covered under World Bank assisted Project –STRIVE

Incorporation of Short-Term Training (PMKVY) for ITIs shall prove to create symbiotic benefits and synergies for both MSDE as well as ITIs. This shall give MSDE access to quality infrastructure (equipment and trainers) currently available at ITIs covered under the project STRIVE (Skills Strengthening for Industrial Value Enhancement) and shall also assist ITIs by introducing income-generating activities for enhanced institutional sustainability such as the introduction of fee-paid NSQF compliant short programs (with a minimum duration of 300 hours) and further achievement of STRIVE Key Performance Indicators (KPIs).

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STRIVE selected ITIs with grade 2 and above will be eligible to apply in this program for the trades in which they have demonstrated current capabilities vide affiliation infrastructure and instructor availabilities.

List of courses from NQR with a duration of 300 hours / NSQF level 4 compliant would be available.

Interested ITIs to apply on the portal for accreditation and affiliation for related / mapped courses from the NQR. RDSDE and State Directorates to assist in identification and ITIs and confirm the readiness for implementation of the program.

Affiliation section to conduct meeting for affiliation/confirmation of ITIs for PMKVY 3.0

Mobilization and enrolment of candidates shall be conducted by the ITIs with assistance from State Directorates and RDSDEs

The trainings to be conducted in accordance to the Special Projects Guidelines under PMKVY3.0

2. Result of 110th All India Trade Test (AITT) for Apprentices

The 110th AITT for Apprentices under the Apprenticeship Training Scheme (ATS) were held in September, 2020 in association with establishments and industry and concluded with declaration of results on 28.12.2020. The scheme is run under the Apprentices Act, 1961 and the passed out apprentices are awarded the National Apprenticeship Certificate (NAC), which is recognised both at national and international level. The exam is conducted twice a year and the

skill-oriented evaluation done by industry and DGT requires continuous practice, dedication, devotion and hard work to succeed.

Also supported through the National Apprenticeship Promotion Scheme, training is provided in establishments under the Central & State Govts. – both Public and Private in 181 designated and 81 optional trades.

Out of 95923 candidates who appeared, 50005 candidates passed the exam. The pass percentage of girls and boys is 58.41% and 51.44% respectively.

Dr. Mahendra Nath Pandey, Hon'ble Minister of Skill Development and Entrepreneurship has congratulated all the successful candidates and the toppers in various streams.

Km. Sneha became the highest scorer and topped the exam scoring 95.96% in the NAC in 110th All India Trade Test, a testimony to her hard work as well as increasing female participation in apprenticeship. Fitter trade apprentices have scored 95.19% and 94.42% marks occupying 2nd and 3rd positions from the West Bengal and Tamil Nadu States respectively. Interestingly apprentices from Electrician and Fitter trades performed well to position themselves at 4th and 5th position in aggregate marks scoring close to 94% marks. The list of the toppers and results is displayed on the DGT website <http://apprenticeship.gov.in>

95923 apprentices trained in 7,273 industries / establishments appeared in the AITT in 215 designated trades.

TOP RANKERS



NAME : **SNEHA**
RANK : 1
TRADE : **FRUITS AND VEGETABLE PROCESSOR**
PERCENTAGE : **95.96%**
ESTABLISHMENT: **INSTITUTE OF HOTEL MANAGEMENT CATERING & APPLIED NUTRITION**
DISTRICT : **PANIPAT**
STATE : **HARYANA**



NAME : **KALYAN RANA**
RANK : 2
TRADE : **FITTER**
PERCENTAGE : **95.19%**
ESTABLISHMENT: **TEXMO RAIL & ENGINEERING LTD**
DISTRICT : **PARAGANAS**
STATE : **WEST BENGAL**



NAME : **THIRUSELVAM**
RANK : 3
TRADE : **FITTER**
PERCENTAGE : **94.42%**
ESTABLISHMENT: **BHEL(Power plant piping)**
DISTRICT : **PUDUKKOTTAI**
STATE : **TAMILNADU**



NAME : **DEEPAK KUMAR BEHERA**
RANK : 4
TRADE : **ELECTRICIAN**
PERCENTAGE : **94.23%**
ESTABLISHMENT: **HIRAKUDFRP**
DISTRICT : **SAMBALPUR**
STATE : **ODISHA**



NAME : **BIBHUPRASAD PRUSTY**
RANK : 4
TRADE : **ELECTRICIAN**
PERCENTAGE : **94.23%**
ESTABLISHMENT: **EHT (O&M) DIVISION**
DISTRICT : **KHORDHA**
STATE : **ODISHA**



NAME : **RAHUL KUMAR JHA**
RANK : 4
TRADE : **ELECTRICIAN**
PERCENTAGE : **94.23%**
ESTABLISHMENT: **TEXMO RAIL & ENGINEERING LTD**
DISTRICT : **PARAGANAS**
STATE : **WEST BENGAL**



NAME : **SOURAV BHATTACHARJEE**
RANK : 4
TRADE : **FITTER**
PERCENTAGE : **94.23%**
ESTABLISHMENT: **SAIL- IISCO STEEL PLANT**
DISTRICT : **BARDHAMAN**
STATE : **WEST BENGAL**



NAME : **HANUMANTHAPPA T N**
RANK : 4
TRADE : **FITTER**
PERCENTAGE : **94.23%**
ESTABLISHMENT: **BHEL**
DISTRICT : **BENGALURU**
STATE : **KARNATAKA**



NAME : **SAJAL BISWAS**
RANK : 5
TRADE : **ELECTRICIAN**
PERCENTAGE : **94.04%**
ESTABLISHMENT: **SAIL- IISCO STEEL PLANT**
DISTRICT : **BARDHAMAN**
STATE : **WEST BENGAL**



NAME : **TRILOKANATH RAUT**
RANK : 5
TRADE : **ELECTRICIAN**
PERCENTAGE : **94.04%**
ESTABLISHMENT: **TRL KROSAKI REFRACTORIES LTD**
DISTRICT : **JHARSUGUDA**
STATE : **ODISHA**

Felicitation of apprentices of 110th AITT exams



RDSDE Guwahati (Assam)

The Regional Directorate for Skill Development Entrepreneurship (RDSDEs)



RDSDE Telangana

located across the country and few establishments felicitated passed out candidates by organising Convocation ceremonies.

RDSDE Assam conducted Convocation on 6th January' 2021 and invited candidates from North Eastern Region for their excellent performance in All India Trade Test 110 (AITT 110). The candidates were felicitated with an Excellency Certificate. And they shared their experiences. RDSDE NCR informed that few establishments in their jurisdiction organised convocation ceremony viz. Maruti Suzuki India Limited, Gurugram, IOCL(N. Delhi of ce), JBM group Faridabad and Escorts. RDSDE West Bengal and RDSDE Telangana also organised convocation ceremony for the passed out apprentices.

3. Online Training-of-Trainers-programme on Entrepreneurship

A 5 days Online Training-of-Trainers-programme on 'Entrepreneurship Development, Employability and Life Skills' for 2000 Instructors/Trainers of

ITIs (Govt. & Pvt.) are organized by DGT, facilitated by National Institute for Entrepreneurship and Small Business Development (NIESBUD). Under this

program, 188 Instructors of ITIs (Govt. & Private) have been trained in January 2021.

4. Online Blended Learning Training of Master Trainers

The 4th phase for Online Blended Learning Training of Master Trainers of NSTIs/ITIs (Govt. & Pvt.) was organized by CSTARI in 6 most demanded trades (Fitter, Electrician, Mechanic Diesel, COPA, Cosmetology and Welder). Under this program 343 Master Trainers

of ITIs have been trained in January 2021. Further, this training program is being replicated by Master Trainers of ITIs to train further trainers of ITIs. The arrangement has been made to facilitate this training program by using the infrastructure of NSTIs /States.

As reported by respective institutes for January 2021, the blended learning TOT program was conducted by NSTI Tura for NE Region, NSTI Dehradun for Uttarakhand State and NSTI (W) Jaipur for 40 trainees of COPA trade. So far, 5,042 trainers of ITIs have been trained by Master Trainers.

5. Commencement of course under CITS for Academic session 2020-21

The centralized counselling of admission under Crafts Instructor Training Scheme (CITS) for academic session 2020-21 for the candidates who have passed the All India Common Entrance Test (AICET-CITS 2020) completed in January 21. The final spot admission for the unfilled seats is taken up in the last week of January 21. Also, the CITS session 20-21 commenced at NSTIs from 14th Jan. 2021



Commencement of CITS Session 20-21 by RD & Institute Officials, NSTI(W) Kolkata

Shri K.L. Kuli, Regional Director, RDSDE, West Bengal - Inaugurating the CITS at NSTI (W) Kolkata



Shri J.P. Meena, Regional Director, RSDDE Gujarat and MP Inaugurating the CITS Training Programme at NSTI (W) Indore

6. Republic day celebration by RDSDEs & NSTIs.

The photographs display Directors and Principals of RDSDEs and NSTIs unfurling the Tricolour, while adhering to COVID-19 norms of social distancing. The trainees of NSTIs also participated in the various cultural events and



Republic Day celebration at NSTI(W) Noida



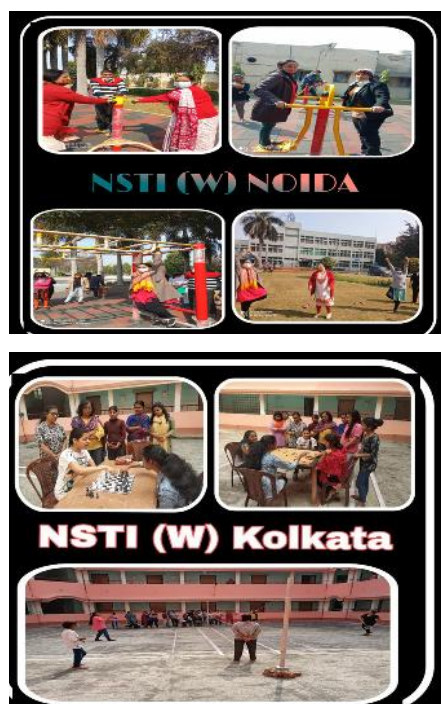
Sweet Distribution at NSTI(W) Vadodara

competitions held in the institutes marking the day with patriotic songs. NSTIs also

distributed sweets among participants. National Anthem was also sung at the end

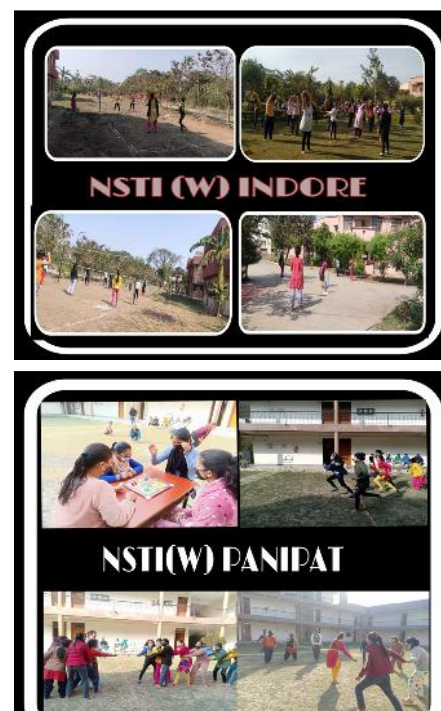


7. Sports activities at NSTIs (W) Noida, Panipat, Kolkata, Indore



Sports Activities at NSTIs

The instructions from DGT to conduct sports activities and cultural activities on alternate Saturdays are being followed by NSTIs. Some of the glimpses of such sports activity is captured in photographs shared by the NSTIs.



8. Employability Skills Lab Inauguration at NSTI (W)- Indore

NSTI(W), Indore recently set up Employability Skills Lab and it was inaugurated jointly with Quest Alliance on 19th January 2021. DGT/MSDE had an MoU with Quest Alliance regarding conducting all classes for Employability Skills, manage placement of trainees and also help the trainees to become entrepreneurs. NSTI(W), Indore has purchased 10 Nos of i7 32 GB hi-end computers with online 3 KVA UPS back up, alongwith furniture for setting up of this Lab. The Lab is also being equipped with a Wi-Fi Optical Fibre Internet connection. Apart from the Computer Lab, one classroom is also dedicated for the trainees and faculty for of ine classes.



Chief Guest inaugurating the "Employability skills" lab

Ms. Janak Palta McGilligan, a Padma Shri recipient, social worker and the founder-director of Jimmy McGilligan Centre For Sustainable Development (NGO) was the Chief Guest of the program. Shri Madhukar Pawar, Assistant Director, Field Outreach Bureau, Ministry of Information & Broadcasting was invited as Guest of Honour. Sh. JP Meena, Regional Director, Madhya Pradesh graced the program with his online presence and expressed happiness about the progress done by NSTI(W), Indore under the leadership of Sh. V. Babu, Principal, NSTI(W) Indore.

9. Mobile Phone Library ay NSTI(W) Allahabad : Learn and Return!

National Skill Training Institute (Women), Allahabad (Erstwhile Regional Vocational Training Institute, Allahabad) has also built up Employability Skills Lab in collaboration with CISCO & Quest Alliance in the year 2019.

Mobile Library Launch ceremony was held at Employability Skills lab, NSTI Allahabad on 13th January, 2021. As part of this programme, jointly organised by DGT and Quest Alliance, 10 Smartphones were lent to trainees to enable digital access and learning, through online content as well as Employability Skill sessions organised by Quest Alliance. The main Objectives of this initiative were to enable

Learners to access the Quest App content and a host of 21st-century AI skills and core employability skills.

Participate in at least 60% of Quest Alliance's virtual sessions and virtual sessions/ assignments by ITI Trainers to continue their journey of virtual learning.

Emotional wellness of learners amid the pandemic through interaction sessions run by coaches periodically.



10. MoUs with Industry by DTET Odisha and Government ITI Cuttack, Odisha

The Directorate of Technical Education and Training (DTET), Odisha signed MoUs with industries viz. - AMS-India, Skillveri, and IG-Drones in January 2021 for Establishment of Centre of Excellence in Additive Manufacturing at Government ITI Cuttack for advancing onwards to an era of Industrial Revolution-4.0.

DTET Odisha also signed MoUs with Phillips Machine Tools India Private Limited, Navi Mumbai and CAD-Mech Engineering Pvt. Ltd., Pune in January 2021 to set up Model Training Centre of Advanced Manufacturing Technologies and Modular Manufacturing



System(MMS) in Advanced Mechatronics and Automation at Government ITI Cuttack.

As per Principal of Government ITI Cuttack, Dr. Hrusikesh Mohanty – “The institute adopts a “Hands-on, Minds-on and Hearts-on” philosophy for building

a smart and developed state” Govt. ITI Cuttack has the capacity of 2500 learners being skilled in 21 different trades including advanced technologies.



News & Events Feb - 2021

1. NSTI, Calicut bagged 'Akshaya Oorja Award-2019'

ANERT (Agency for New and Renewable Energy Research and Technology), an autonomous organization, functioning under power dept., Government of Kerala announced in “Akshaya Oorja Award-2019”, for the contributions in the field of Renewable Energy promotion.

NSTI Calicut bagged the prestigious “Akshaya Oorja Award” with an award price of Rupees 1 lakh, in the category of “Educational Institutions” and Shri. Rajan M.P. Vocational Instructor, NSTI Calicut is awarded “Certificate of Appreciation” for the individual excellence in the renewable

energy field by ANERT.

NSTI, Calicut is the first institute in India that introduced CTS course in ‘Solar Technician’ trade in 2018 with 20 trainees. This Institute also conducted several short term courses in Solar PV technology and hosted two courses conducted by NISE (National Institute of Solar Energy) under MNRE.

The awards were distributed in a ceremony hosted by ANERT on 22 Feb 2021 at Thiruvananthapuram.



2. Swachta Puraskar Award – NSTI W Indore

In Indore, National Skill Training Institute (Women), Indore got third place in the cleanliness competition organized by the Central Government Employees Welfare Coordination Committee, a representative organization of the Central Government.

The program was chaired by the Chairman of the Committee and Member of Income Tax Appellate Tribunal Accounts Department, Mr. Manish Bord and was honoured as the special guest by distributing the award by Padmashri Dr. Janak Palta, Cleanliness Brand Ambassador of Municipal Corporation Indore. The award was received by the Principal Mr. V. Babu, Deputy Director and Staff on behalf of the institute. In this ceremony, first place has been bagged by Devi Ahilyabai Holkar Airport, Indore and Institute of Management of India and Employees State Insurance Corporation



jointly got second place. RR Cat Indore received the Consolation Award.

It is commendable that the institute with its continuous support of staff and trainees, has maintained the cleanliness in the campus for last two years. One day during the week, all members cooperate in ‘Shramdaan’. Proper maintenance of three major gardens has been made in the campus. As a result of institute’s untiring efforts, three rain

water harvesting pits were constructed in the campus of the institute by the Municipal Corporation for the collection of rain water. The institute collects wet and dry waste separately. There is also a proposal to process compost manure for wet food waste and dry leaves, for which work has already started so that the waste will not have to be disposed of in future, but the compost produced by the institute will be used in the garden itself.

3. 46th WORLD SKILLS COMPETITION, 2022: SHANGHAI, CHINA – WORLD SKILLS - INDIA TO SCREEN TALENT FROM THE COUNTRY



The World Skills Competitions', held every two years, are a unique opportunity for countries and regions to benchmark their vocational education and training systems. These are designed to measure excellence and to encourage hundreds of thousands of young people to turn their passions into a profession in more than 50 skills across a wide range of industries - from joinery to forestry; hairdressing to electronics; and auto body repair to bakery.

THE WORLD SKILLS COMPETITION, 2022 INDIA

World Skills India is lead under the aegis of Ministry of Skill Development and Entrepreneurship (MSDE), for India's participation at World Skills International competitions since 2011. Several Skill Training institutes and universities in India are gearing up for participating in the World Skills Competition to be held in Shanghai, China in 2022 from 12-17 October, 2022.

The 33 NSTIs in the DGT Ecosystem have also conducted various competitions at institute level in January- February 2021 for short listing their candidates for the National level selection for the WSC 2022 to be held at Shanghai. The selected candidates have been registered on NSDC portal for participation in district level and state level competitions.

NSTI(W) Vadodra, Allahabad, and Indore reported to have conducted skill competitions in the trades such as Advanced Diploma in IT Networking & Cloud Computing under IT Sector, Fashion Design Technology, Dress Making under Apparel Sector & Cosmetology under



Beauty & Wellness sector. The short-listed candidates, registered on the NSDC portal, will be further screened by the States/Sector Skill Councils of selected trades. However, NSDC with Sector Skill Councils would also conduct competitions for the trades not covered during state competition and for which registrations are received.

Mobile Robotics, CyberSecurity, landscape, Gardening, Concrete Construction work and Mechatronics are team skill Competition where a team of 2 individuals are required for the competition.

In the World Skills International Competition 2019 in Kazan, Russia,

India made a big mark by winning 19 medals and Medallions of Excellence. The 48-member Indian team won one Gold, one Silver and two Bronze medals besides 15 Medallions of Excellence at the competition.

The 47th World Skills Competition will take place 10-15 September 2024, in Lyon, France following the postponement of the 46th World Skills Competition in Shanghai, China, by one year due to the COVID-19 pandemic

4. Updates on TOT programs and CTS/CITS admissions

- A 5 days Online Training-of-Trainers-programme on Entrepreneurship Development, Employability and Life Skills for 2000 Instructors/Trainers of ITIs (Govt. & Pvt.) is organized by DGT, facilitated by National Institute for Entrepreneurship and Small Business Development (NIESBUD). Under this program, 804 Instructors of ITIs (Govt. & Private) have been trained in the month of February, 2021. So far, 992 Instructors of ITIs (Govt. & Private) have been trained.

- An Online Blended learning Training of Master Trainers of NSTIs/ITIs (Govt. & Pvt.) was organized by CSTARI in 6 most demanded trades (Fitter, Electrician, Mechanic Diesel, COPA, Cosmetology and Welder). So far, 6,656 trainers of ITIs have been trained by Master Trainers,

- The centralized Counselling of CITS admission 2020-21 for the candidates who have passed the All India Common Entrance Test (AICET-CITS 2020) is

complete. The final transfer round for the unfilled seats was taken up in the last week of February '2021.

- Common websites for all the 22 Regional Directorate for Skill Development & Entrepreneurship (RDSDEs) (with common templates) has been made ready for inauguration.

5. Initiative by ITI Cuttack - Reality-based Simulation Software Platform & Certification in STEM



- Skillveri's eXtended Reality Lab was inaugurated on 11th February, 2021 at Government ITI Cuttack by Director of Employment & Training, Bihar Ms. Ranjita, IAS, and DTET Director Mr. Reghu G, IAS. This is an initiative by ITI Cuttack towards extended Reality-based simulation software platform for training.

- EdgeFX conducted training of faculties and learners in Govt. ITI Cuttack, Odisha on 26th February, 2021 accompanied with certification in STEM (Science Technology Engineering and Mathematics) technologies like Robotics, Electronics, IoT and Arduino programming

Novel Initiatives of Department of Industrial Training, Government of Kerala

Nypunya Karma Sena is a unique project rolled out by the Department of Industrial Training, Kerala during the floods in 2018 aimed to execute skilled jobs voluntarily in Government Hospitals, Schools, Anganawadis, Local Self Government Department Offices etc. functioning across 14 districts in Kerala. It is a skill regiment that act as a quick response team whenever there is an emergency or natural calamity such as floods, earth quake etc. It comprises of instructors and trainees from various Government ITIs of Kerala.

Other objectives of this prestigious project are to execute the repair works in Government Hospitals, Schools, Public Offices, houses built with the financial backup of Government (Kerala Life mission project beneficiaries), Electrification work in SC/ST colonies, Rectification of electrical and carpentry works in public libraries.

ITI Products and Services Kerala :

The Department has planned to introduce production centers at 99 Government ITIs during this financial year itself. In order to strengthen

entrepreneurial skill and On the Job Training, the Department of Industrial Training has already established production centers at 3 Govt. ITIs which are covered in PPP Scheme.

All the products developed are marketed under an Umbrella brand "ITIPS KERALA" (ITI Products and Services Kerala). As part of this, Govt. BTC Kollam has developed a unique hand sanitizer and it is being marketed in the brand name of "t-Fend"-hand sanitizer.

Govt. ITI Areacode has already been listed by Kerala Store Purchase Department to deliver all types of furniture



to ITIs and other Govt. departments with a brand name of "t- Furnishings" under ITIPS KERALA.

Govt. ITI (W) Calicut has established a world class beauty solution centre in their ITI premises itself with a brand name of "t-Charm."

Official inauguration of all these production centers was done by Honourable Minister of Labour and Skills, Shri. T.P Ramakrishnan on 28.12.2020 in the presence of eminent personalities from different fields of the society.

These two initiatives are aimed at improving its quality of training of students in ITIs.

RDSDE - Kerala



Regional Directorate of Skill Development & Entrepreneurship (RDSDE) Kerala is an attached office of Directorate General of Training (DGT), Ministry of Skill Development & Entrepreneurship and has been step up vide Gazette Notification in December 2018.

RDSDE-Kerala is the nodal implementation and co-ordination body for Skill training, Apprenticeship training and ensures effective integrated development and monitoring of all the programs at state

level. Further, it supervises NSTI (W) Trivandrum & NSTI Calicut.

Apprenticeship training is one of the most efficient ways to develop skilled manpower for industry by using training facilities available in establishments. There are 962 establishments registered in apprenticeship portal under RDSDE-Kerala jurisdiction.

There are total 659 ITI's and 1.15 Lakh trainees are being trained in these

ITI's under supervision of RDSDE Kerala & Department of Industrial Training, Government of Kerala.

Apart from ITI Ecosystem, RDSDE Kerala is monitoring implementation of Centrally sponsored Schemes – 'Up gradation of 1396 Govt. ITI through PPP' and 'Skills Strengthening for Industrial Value Enhancement (STRIVE)'. STRIVE is a World Bank funded project for a total cost Rs. 2200 Cr.

NSTI CALICUT, KERALA

The history of the National Skill Training Institute, Calicut, Kerala dates back to 1981, when it was started as 'Model ITI' at Beypore Calicut as model to implement the restructured pattern of craftsmen training. In the year 1997, it was shifted to the present premises

at Govindapuram, Calicut. Envisaging vast expansion and diversification of its training activities, erstwhile Model ITI was upgraded in 2014 as Advanced Training Institute, Calicut and the institute started following training courses Craft Instructor Training Scheme (CITS):

- a) CITS – Mechanic (Refrigeration and Air-conditioning),
- b) CITS- Electronic Mechanic
- c) CITS- Electrician



MoU under DST for 'Solar Technician'

Short-term tailor made courses were introduced in 2017 under Advanced Vocational Training Scheme(AVTS) to cater to the demands of industries, aspiring students and educators.

In 2018, NSTI Calicut also introduced three additional CITS courses in following trades:

- (i) CITS - RODA (Reading of Drawing and Arithmetic)
- (ii) CITS - Welder
- (iii) CITS - CHNM (Computer Hardware and Network Maintenance)

NSTI Calicut was the first to introduce the CTS training in New Age course of Solar Technician Electrical, in 2018. Shri. Rajan MP, Vocational Instructor was awarded "Kaushal Acharya" in 2019 for his excellent work to achieve this milestone.

In 2019, NSTI Calicut started 2 additional new age CTS courses of

- (i) IoT Technician Smart Healthcare and
- (ii) Electrician (Power Distribution)

The institute has signed 7 Memorandum of Understandings (MoUs) under Dual System of Training (DST) in all CTS trades with leading industries in the vicinity namely;

1. Iqraa International Hospital, Calicut
2. Santhi Hospital, Omassery, Calicut
3. Aster MIMS Hospital, Govindapuram (PO), Kozhikode
4. Aster MIMS Hospital, Changuvetty, Kottakkal, Malappuram
5. Moopens Solar Energy Solution Pvt. Ltd
6. Poweron Solar Devices and Integrators Pvt. Ltd Calicut Kerala

7. Kelcon, Calicut, Kerala

In 2019, NSTI Calicut started the 2 year course of "Advanced Diploma (Vocational) Course in 'IT, Networking & Cloud Computing'". The faculty from IBM conducts classes on this Advanced Diploma course.

In 2020, Shri Anurag, trainee of CITS in Mechanic (Refrigeration and Air-conditioning) won first prize in the state level competition in India Skills Kerala.

The institute has maintained hostel of 28 rooms with excellent mess facility at nominal charges.

The institute has its own website <https://nsticalicut.dgt.gov.in/>



Anurag Jain receiving first prize in 'India Skills' Kerala

ACHEIVEMENTS :

MASK PRODUCTION DURING LOCKDOWN



Mask Production during Lockdown period

Dress Making CTS & CITS trainees have stitched 25000 masks for Kerala Police Department and Stitched almost 1000 masks and distributed to other essential services like Circle Inspector Of ce Kazhakuttom, SBI, Kazhakuttom and Kerala Public Service Commission, Trivandrum

AWARDS:



Dress Making CITS trainee Ms. JesniNazeer S N stood as first runner up for the National Skill India competition 2019 held at Kozhikode

Success Story - Solar Technician in NSTI Calicut

Shri MP Rajan, VI awarded
'Kaushalacharya Award - 2019' from
Hon'ble MSDE

- NSTI, Calicut started Solar Technician (Electrical) course under CTS in 2018. Since then, two batches of 20 completed the course with excellent track record. The trainees of first batch are well placed in various Solar power industries in Kerala.

- The institute also facilitated short term courses organised by NISE (National Institute of Solar energy, under NSDC) and ANERT (Agency for Non-Conventional Energy and Rural Technology under Govt. of Kerala) due to available infrastructure for such training.

- NSTI Calicut is affiliated to SCGJ (Skill Council for Green Job) This Institute bagged the "Akshaya Oorja award 2019 by Govt. of Kerala for its outstanding

contributions as an "Institution" and is going to receive Rs. 1,00,000/- and certificate.

- Shri MP Rajan, Vocational Instructor who is the in-charge of Solar Technician course, received the appreciation certificate by Govt. of Kerala. Shri MP Rajan is also the "Kaushalacharya" award winner of 2019 in Solar Technician trade.

- NSTI Calicut is maintaining good relation with Solar industries across the state, other training providers and KSEB in order to help the passed out trainees to get placed and to update the technologies and trends in the Solar power area.

- The institute has social media groups of more than 700 members from this field

'SOLAR TECHNICIAN' INFRASTRUCTURE AND WORKSHOP - NSTI CALICUT**NSTI(W), Trivandrum**

National Skill Training Institute for Women [NSTI(W)], Trivandrum was established in 1983 by Woman Occupation Trade (WOT) cell of Directorate General of Training (DGT), Ministry of Skill Development and Entrepreneurship (Erstwhile Ministry of Labour & Employment, Directorate General of Employment and Training (DGE&T)), Government of India in association with International Labour Organization (ILO) to provide wide range of equitable opportunities on Vocational Training for woman, so as to bring them in to the main stream of the nation's economic activities.

This exclusive institute for women facilitates short term training programme and regular long term training programme in various disciplines. Long term courses are conducted in levels such as Craftsmen Training Scheme (CTS), Craft Instructor Training Scheme (CITS) and Advanced Technical Diploma course "IT, Networking and cloud" has also been started in year 2019. The full-fledged institute is equipped with own building, hostel, game plots, wide range of latest equipments for imparting training activities, and dedicated trainers.

GARMENTS SALES MELA

Dress Making Section conducted Garments Sales for stitched garments by trainees in 2019 and 2020 and It turned out profitable to trainees and cultivated sense of entrepreneurship among them.

Good Practices – Industry driven courses at Model ITI in Kerala

Model Govt. ITI Kalamassery, Kerala - ARISE and GURU SHIKSHA Programme by Samsung

The Samsung Technical School – Advanced Repair and Skill Enhancement (ARISE) is the initiative of Samsung India Corp. located at Model Govt. ITI Kalamassery, Cochin, Kerala formed on the basis of MoU with Industrial Training Department (ITD) Kerala. The different courses which are offered are:

- 21 days of training on Hand Held Phone (HHP) for Electronic Mechanic(EM) and Instrument Mechanic(IM) trades
- 21 days training on Audio Video (AV) in the trades of IM, EM and Mechanic Consumer Electronics Maintenance (MCEA)
- 51 days training on Refrigeration and Air Conditioning and Home Appliances (RACHA) for Mechanic -Refrigeration & Air-Conditioning (M-RAC) and MCEA Trades



programme of 5 days' duration at different Samsung service centres.

Female students finishing the HHP and AV course respectively are granted a scholarship of Rs. 15,000, course toppers with above 90% score, are granted a scholarship of Rs. 20,000. Female trainees of RACHA course are granted Rs. 20,000 as scholarship.



The instructors of MRAC, EM, MCEA and IM trades in the Govt. ITI are trained under GURU SHIKSHA Programme conducted by Samsung and these trained trainers in-turn provide training as per Samsung criteria along with the training on NCVET approved curriculum. Samsung supports practical and theory classrooms of the Model ITI. At the end, the final exam and interviews are conducted by Samsung and also provides placements, all types of Samsung products for training and an OJT

GOOD PRACTICES by ITD Kerala –

Award of Excellence to the Principal, Model ITI and Instructors



Sh. P. K. Reghunadhan, Principal Model Govt. ITI Kalamassery has been awarded as Best Principal award by the Industrial Training Department, Kerala State for Outstanding Contribution in pursuit of Service Excellence. The award was honoured by Sh. Satyajee Rajan, IAS,

Additional Chief Secretary, Kerala in the presence of Dr. S. Chithra, IAS, Director, ITD Department and other senior officers of the Department. Also two instructors of the Govt. ITI Kalamassery were honoured with this excellence award.



Manipur Society for Skill Development(MSSD)

Department of Craftsmen Training is which administers Industrial Training Scheme in the state as per details tabulated the department under Manipur Govt, Institutes(ITIs), of ers Craftsmen Training below.

State	ITI Count		Seat Count	Population	Seat/ lac population	Average Grade	Pass %	Female%
	Govt	Pvt						
Manipur	01(NCVT)	00	284	28.55 lac.	9.94	2.46	52	13.8
	10(SCVT)	00	2480		86.86			

Manipur Society for Skill Development (MSSD)

For implementation of Centrally Sponsored Schemes (CSS) relating with Directorate of Craftsmen Training(ITI) under the Department of Labour & Employment, Government of Manipur, different societies were constituted like i) Manipur Society for Skill Development Initiative Scheme (SDIS) and ii) Society for Enhancing Skill Development Infrastructure (ESDI). Later, the two societies were amalgamated as Manipur Society for Skill Development (MSSD).

During 2009, State Skill Development Mission was constituted under the Chairmanship of the Hon'ble Chief Minister, Manipur to identify skills in different sectors and also to formulate action plan for skill development in the State. The same was re-constituted during 2015. As

per skill gap study carried out by NSDC through Deloitte, it was recommended to create separate department of Skill Development. For creation of separate Department of Skill Development proposal was placed before the State Cabinet and it was recommended to utilize the existing staf of the Directorate of Craftsmen with operationalization of State Skill Development Mission by the MSSD as nodal agency, instead of creation of separate & new department due to financial constraint of the State Government.

Presently, MSSD is implementing the following project/scheme:

I. Chief Ministergi Shotharabasingi Tengbang (CMST)



Launch of Chief Ministergi Shotharabasingi Tengbang

II. Enhancing Skill Development Infrastructure(ESDI)

III.Skill Acquisition and Knowledge Awareness for Livelihood Project (SANKALP):

IV.Pradhan Mantri Kaushal VikasYojana 3.0 (PMKVY 3.0)

(I) Chief Minister gi Shotharabasingi Tengbang (CMST)

This is a State funded Skill Development training programme implemented in co-ordination with Social Welfare Department for Persons with Disabilities (PwD). In this program against 650 trainings targeted,

only 498 were enrolled, 476 assessed and 452 certified utilizing Rs. 0.76 crore against allocation of Rs. 0.99 Crore. Courses are offered in job roles such as Hand Embroiderer, Sewing Machine Operator,

and Domestic Data Entry Operator and are being assessed by Health Sector Skill Council on fee payment basis.

(II) Centrally Sponsored Scheme of DGT, MSDE - Enhancing Skill Development Infrastructure in N.E States

State	Existing ITIs covered				Location Establishment of New ITIs
		Introduction of 3 new trades		Constructing new hostel, boundary wall and supplementing old and obsolete tools and equipment	
Manipur	3	Phaknung Senapati Takyel(W)	8	Phaknung Senapati, Takyel (w) Tamenglong Ningthoukhong, Kakching Chandel, Saikot	4 Sekmai, Kangpokpi, Pherzawl, Nomey

Physical Progress under ESDI Scheme

PMKVY 3.0 is implemented in the State under Phase I, a target of 687 was allotted by the Ministry of Skill Development and Entrepreneurship, Government of India and for Recognition of Prior Learning (RPL) a target of 200 candidates for each districts have been allotted. Under

7 ITIs covered for construction of Hostel building and boundary wall, have completed the work. All 8 ITIs have completed procurement of equipment. As regards four new ITIs to be established in Sekmai, Kangpokpi, Pherzawl and Noney, all four of the new ITIs have a

project cost of Rs. 9.50 cr. Civil works for one ITI in Sekmai is completed, and the one in Kangpokpi is 70% done. Civil work is yet to start in 2 ITIs. Procurement of equipment will be accordingly started depending on progress of civil works to the equipment.



Establishment of New Govt. ITI Sekmai – Building construction completed

(III) Skill Acquisition and Knowledge Awareness for Livelihood Project (SANKALP):

For implementation of the scheme/ released a sum of Rs. 1.75 crore and action is prepared. project, the Government of India has plan for the implementation of the scheme

(IV) Pradhan Mantri Kaushal Vikas Yojana 3.0 (PMKVY 3.0)

While the 3 existing ITIs covered under PMKVY2.0 (2016-20), the Ministry of of which 8025 candidates were placed introduction of 3 new trades have Skill Development & Entrepreneurship after training. completed civil works and procurement allotted 22763 physical targets with of tools and equipment, the 8 ITIs covered f nancial involvement of 43.75 crore. for supplementing deficient infrastructure, There were 21457 enrolled candidates out

New project/ scheme taken up by the MSSD for state returnees due to COVID-19 Pandemic

There were 9400 state returnees due to COVID-19 pandemic. Out of the registered state returnees (9400) around 1330 were registered on the MSSD website, 380 of the registered persons on MSSD website have responded to take up skilling in various sectors.

The State Govt. is working on its current issues, which consists of:

- improving physical & financial progress under schemes,
- the conversion of trades of ered by ITIs under State Council for Vocational Training (SCVT) to National Council of Vocational Training (NCVT),
- creating a budget head in the State treasury for further release of fund under ESDI scheme,
- roll out of PMKVY 3.0 and

the readiness plan for the new scheme in pipeline 'DAKSHATA' and contextual/ traditional Skill identification.

(Compiled and summarized by Sh. Suryakant Mishra, ISDS, Assistant Director, RDSDE-Bihar and Ms. Gauravi Mathur, Intern, Skill Talks)

GOOD PRACTICES ADOPTED BY MODEL GITI PUSA, NCT OF DELHI

A strong Industry linkage exists in practice in Model ITI Pusa which is displayed by the Labs set up in collaboration with industries like M/S Maruti Udyog India Limited (MUIL), Siemens, Daikin Air-conditioners, LG Electronics etc. The industry collaborates with the ITI in preparation of session plan and new modules introduced in existing CTS course in order to produce trained manpower as per industry requirements. This edition highlights such linkage with M/S Siemens Limited.

CTS Trade	Details of the industry feedback incorporated into the session plan
Electrician	The Practical and Theoretical contents advised by the Siemens for their different kind of products like Circuit breakers - Microprocessor Controlled, AC Drives, MCCB, Star Delta Starter, Soft Starter, Timer and Relays, Control Kits, Type II Co-ordination System etc. are incorporated in the existing syllabus and being taught by the Instructors to ITI trainees using these equipment donated by Siemens.
Draughtsman (Mech)	M/S Siemens Ltd. has provided Computer Soft-ware like Solidedge and NX CAD. Training of the same has been incorporated in the session plan in addition to the prescribed syllabus.
Instrument Mechanic	The Practical and Theoretical contents advised by the Siemens for their different kind of products like PLC Trainer, Logo Test Kits, etc. are incorporated in addition to the existing syllabus and being taught by the Instructors to ITI trainees using these equipment donated by Siemens..

Rubber Sector - Skilling Ecosystem at a glance

Market Scenario: Rubber Sector is unique Tamilnadu, Uttar Pradesh, and West Bengal which has potential to generate more than other popular sectors. This sector is mostly concentrated near Kerala, Industry has turn over in tune of 87000 Crore which has potential to generate employment for 4.4 Million Individuals. As per RSDC Report (2016-17),

No of Manufacturing Units (State wise)

State	Small	Medium	Large
Andhra Pradesh	201	100	20
Assam	3	6	21
Chattisgarh	6	4	7
Delhi	197	50	2
Goa	24	33	4
Gujarat	495	118	9
Haryana	384	160	22
Himachal pradesh	19	35	4
Jharkhand	33	45	0
Karnataka	242	78	23
Kerala	518	91	12
Madhya Pradesh	60	65	14
Maharashtra	358	91	12
Odisha	22	7	3
Pondicherry	11	48	6
Punjab	214	145	17
Rajasthan	152	110	20
Tamil nadu	366	66	26
Uttar Pradesh	421	239	28
West Bengal	356	169	26
Total	4114	1714	278

(Source- Rubber Skill Development Council Report)

Existing CTS Courses-

Under CTS, curriculum for Rubber Technician has been designed and approved by NCVET. However, presently

none of the ITIs have picked up this course to be offered for trainees.

Hence, no CTS course is running in this sector in the ITIs under long term training.

Main Recommendations of STCC

- The industry needs people trained in their area of expertise and not “half baked” professionals. So to attain credibility for the course, students should be assigned to an industry for an ‘on the job’ training to get a real feel of the industry and to be better prepared.
- Inclusion of Latex, Plantation Job & Chemist roles is pertinent as they are missing from current curriculum.
- Committee is proposing to rename existing CTS Rubber technician course

to Rubber Machine Operator Course as one qualification with name of “Rubber Technician” already exists under Short term courses.

- Committee has recommended courses based on the demand, geography & the study report on Skill Gap analysis.
- Committee has recommended 1 Long term course (6 Month) and 2 Short Term Courses (2-3 Months) and is being examined by CSTARI Kolkata.



Industry relevant techniques

Summary of Courses

The Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers a range of vocational training courses catering to the need of different sectors of the economy/labour market. The vocational training programs of short term duration are intended for up skilling of NTC/ NAC pass out candidates. After passing out of the course, the trainee is awarded a competency based certificate approved by DGT.

For Rubber sector following courses proposed

- Rubber Plantation Technician - The trained technician would perform various duties such as Rubber Nursery Worker-Budding, General, Grader, Latex Harvest Technician (Tapper) & Processing Technician-Rubber Sheeting role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence.
- Lab Chemist (Latex) - This course includes like to identify the sample by labelling, chemical's material safety, perform calibration of the testing equipment periodically as per the SOP and examine whether the reagents and materials used for testing are of desired quality as per SOP.
- Rubber Moulding Operator- This course includes introduction of rubber compression moulding, compression moulding machine operation, post compression moulding activities, injection moulding operation and Post injection

moulding activities. The committee has proposed implementation of CTS/ Long Term courses for the Rubber sector in NSTI Calicut with the help of State Government's Vocational & Training Department on the pilot basis to give it initial momentum and set standards of the training. Based on Responses, possibility of introduction of ATS & CITS courses may be worked out.

Reference NCO-2015: -

- | | |
|---|---|
| I. 8141.0101 – Pre and Post Calendaring Operator | III.8141.0100 – Calendar Machine Operator |
| II. 8141.0300 – Extruding Machine Operator (Rubber) | IV.4322.0201 –Junior Rubber Technician/ Technical Assistant |

Brief Summary of Existing Courses & Job Roles

- Junior Rubber Technician/Technical Assistant is to co-ordinate with team members and assist the operators/supervisors to carry out activities as per the production processes of the company.
- Calendar Machine Operator operates calendaring machine to convert rubber into rubber sheets by rolling process.
- Extruding Machine Operator (Rubber) operates a machine in which compounded rubber is extruded through heated die fixed to machine head to form continuous shaped strip.
- Pre and Post Calendaring Operator is responsible for feeding the correct quantity of compound to the Calendar rolls.



Trainees interacting with trainers

Key Training Partners

- National Skill Development Corporation (NSDC)
- All India Rubber Industries Association (AIRIA)
- Automotive Tyre Manufacturers Association (ATMA)
- Rubber Board under Ministry of Commerce & Industries
- Indian Rubber Institute

Strengths and challenges in this sector

- The industry has a huge workforce. Other than tyres, all other categories are unorganised. To understand the skill gap existing in the industry, a study was conducted across 21 states in manufacturing and plantation sectors. Following this exercise, RSDC embarked on a massive reskilling programme, under which close to 1.5 lakh people have been trained across plantation, tyre and non-tyre sectors since 2015.
- The skill boost programmes in the rubber plantation sector, which has been attempting to improve the quality and output, have brought in great benefits. "We have found that when we skilled the people in the plantation sector, rubber productivity went up by 16 per cent, which is a significant increase," Vinod T Simon, Chairman, RSDC, told Business Line.
- More than 70 per cent of the certified students have been placed/self-employed.



Best Manufacturing Practice

Content by: Sh. Mathivanan, Regional Director, RDSDE Kerala, Convener STCC Rubber

Paints & Coatings Sector in India - Organised industry with National presence - large Skill gaps in Workforce

Market Scenario (Global & Indian)

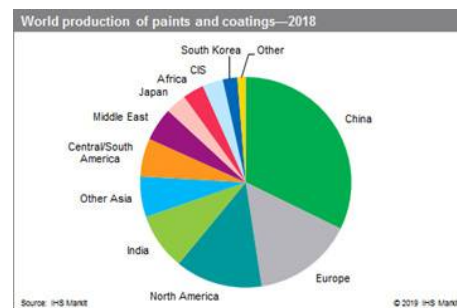
The value of paint and coating industry is \$4.79 billion (2012). Paint and coating industry is expected to grow at a compound annual growth rate (CAGR) of 14%, hitting a value of \$9 billion in 2017. The global paint and coating market size was valued at \$154.64 billion in 2019 and is projected to reach \$249.70 billion by 2027

Area of Paint & Coating sector

Paints and coatings are widely used in the construction, automotive & transportation, and wood industries. With the rapid growth in demand the industry has been facing a workforce crunch.

There are mainly two type of paints used i.e. Decorative and Industrial paint. Around 75-80 % of market comprises of decorative paint and 20-25 % of market comprises of Industrial paint . The main area covered under 'Decorative' and 'Industrial' paint are given below:

A. Decorative paint industry - Interior Paints/emulsions /enamels, Exterior Paint/emulsions /enamels, Distemper, Putty,



Source: <https://ihsmarkit.com/products/paint-and-coatings-industry-chemical-economics-handbook.html>

Wood coatings, Cement paints, Primers and thinners, etc.

B. Industrial paint industry - General Industrial, Automotive coating, Protective

coating, Powder coating, Glass coating, Pipe coating, Niche segments viz. coil, marine, ref nish coatings, etc.

Present scenario of skill in Paint & Coating sector

The industry experiencing rapid growth and the demand for skilled painters, has been consistently increasing. The number of skilled painters required across the country is estimated to increase from 1.7 million in 2013-14 to around 3.0 million by 2023-24 (IPA, 2015).

The lack of formal training of painters is the main reasons behind the shortage of skills in paint industry. Absence of formal skill training has resulted in large skill gaps amongst paint applicators that learn under the supervision of senior painters. There is a huge mismatch between the demand of the clients and services provided by the

painters. This is most acutely felt in the area of application of paint.

There are some ITIs and private institutes which provide training for vocational courses in paint technology. The information is tabulated below :

Table 1 : Courses of ered by DGT for Paint & Coating

Sr No	Sector	Title of the Qualification	Entry Qualification	Duration in hours (LT/ST)	NSQF Level	Scheme (CTS/CITs/ATS)*
1.	Paints and Coating	Industrial Painter	10th	1600	4	CTS
2.		Domestic Painter	10th	1600	4	CTS
3.		Painter (General)	8th	3200	5	CTS
4.		Painter (General)	8th	1600	4	ATS-Designated Trade
5.		Painter (Marine)	8th	1600	4	ATS-Designated Trade
6.		Painting Technology	ITI – Mechanical/ Painting Technology	1600	6	CITS
7.	Automobile Sector	Mechanic Auto body Painting	10th	1600	4	CTS
8.		Mechanic (Denting, Painting and Welding)	10th	3200	5	ATS-Designated Trade

9.	Automobile Sector	Auto Body Repair Denting & Painting	5th	600	3	SDIS/ MES
10	Construction Sector	Wall Painter	5th	300	3	SDIS/ MES
11.	Handicrafts & Carpets	Finisher & Painter (Soft Toy) (MES)	5th	300	2	SDIS/ MES

**CTS – Craftsmen Training Scheme - Courses of er ed by ITIs*
ATS – Apprenticeship Training Scheme – Courses of er ed by establishment as per ‘The Apprentice Act 1961’
CITS – Crafts Instructor Training Scheme – Courses of er ed for training of vocational instructors
SDIS- Skill Development Initiative Scheme / MES – Modular Employable Scheme – Short term Courses

Table 2: Existing number of courses available under various sectors that are related to the ‘Paint & Coating Sector’

Sr No.	Sector	Entry Qualification						Total
		5th	8th	10th	12th	ITI	B.SC	
1.	Paints and Coating	11	6	8	1	1	2	29
2.	Construction Sector	8	1	2	0	0	0	11
3.	Automobile Sector	1	1	4	0	2	0	8
4.	Handicrafts & Carpets	4	2	0	0	0	0	6
5.	Media & Entertainment	0	0	1	0	0	0	1
6.	Iron & Steel	0	0	1	0	0	0	1
7.	Electronics	0	0	1	0	0	0	1
8.	Capital Goods & Manufacturing	0	0	1	0	0	0	1
9.	Apparel	1	0	0	0	0	0	1
	Grand Total	25	10	18	1	3	2	59

List of NSTI / ITI are available on <https://ncvtmis.gov.in/>
List of Establishment for apprenticeship training are available on <https://apprenticeshipindia.org/>
More details related to syllabus available on <https://www.nqr.gov.in/>

Table 3: Department/Agency involve in skilling manpower for the Paint & Coating

Implementing Department/ Agency	Total number of courses of er
Directorate General of Training (DGT)	11
Paints and Coatings Skill Council	19
Construction Skill Development Council of India	9
Automotive Skills Development Council	5
Handicrafts & Carpet Sector Skill Council	4
National Skill Development Corporation (NSDC)	4
National Academy of RUDSETI, Bengaluru	2
Capital Goods Skills Council	1
Directorate of Technical Education J&K. (SCVT)	1
Electronics Sector Skills Council of India	1
Indian Iron and Steel Sector Skill Council	1
Media and Entertainment Skill Council	1
Grand Total	59

Table 4 : Major Industries in Decorative paint and Manufacturing facilities in India

<i>Top 4 Decorative paint industries (95% Market share)</i>	<i>Other paint industries</i>
Asian Paints Ltd (55% Market share)	Shalimar Paints, Nippon Paint India, Indigo Paints, Kamdhenu Paints, JSW Paints
Berger Paints India Ltd. (20% Market share)	
Kansai Nerolac Paints Ltd. (15% Market share)	
Akzo Nobel India Ltd. (7% Market share)	

Manufacturing Facilities Of Major Indian Paints & Coating Producers

<i>company</i>	<i>Number of Manufactur- ing Plants</i>	<i>Location</i>
Asian Paints	10(Domestic)	Decorative Paints - Rohtak(Haryana), Keena (Uttar Pradesh, Ankleshwar(Gujarat), Khandela(Maharashtra),Patancheru(telengana),Visakhapatnam(Andhra pradesh), Mysuru(Karnataka) and Sriperumbudur(Tamilnadu) Industrial Paints - Sarigam(Gujarat) and Taloja(Maharashtra)
Berger Paints	12	Howrah, Rishra, tezpur, Nalbari, Hindupur, Jejuri, Jammu, Puducherry, and Udayonagar
Kansai Nerolac	5(2 upcoming plants)	Lota, Bawal, Jaipur, Hosur and Sayakha Upcoming - Amristar and Vishakahapatnam
Akzo Nobel	6	Hyderabad, Mohali, New Mumbai,Bengaluru,Bhinda and Thane
Shalimar paints	4	Howrah, Nashik, Bulundshahar and Chennai.

Source : https://www.coatingsworld.com/issues/2019-07-01/view_india_asia_pacific_reports/expansions-in-india-paint-coatings-industry/

Table 5: Major Paint Industries that engage Apprentices

<i>Sr No</i>	<i>Name of Industries</i>	<i>Number of total Apprentices Engaged (As per Apprentice Portal)</i>
1.	Asian Paints Limited	488
2.	Kansai Nerolac paints Ltd	57
3.	PPG Asian Paints Pvt Ltd	46
4.	Berger Paints India Limited	11
5.	Nippon Paint (India) Private Limited	7

Table 6: CTS admission in Paint & Coating

<i>Sr No</i>	<i>Name of Trade</i>	<i>2014</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>
1.	Painter General	1682	1869	1984	1775	3783	2394
2.	Industrial Painter	0	101	112	114	114	96
3.	Mechanic Auto Body Painting	0	41	42	86	586	493

Source : <https://ncvtmis.gov.in/Pages/Home.aspx>

Content by Sh. Ketan Patel, ISDS, DDT on Paint & Coating Sector by Sector Trade Course Committee (STCC)

Gems and Jewellery- All that Glitters is....

Jewellery is an important adornment for the women across the world. Indian families traditionally buy gold jewellery for taste and also as an investment.



Consequently, there has been a huge demand for precious metals viz. Gold, Silver, Diamond, Platinum, etc. over the ages. The gems and jewellery industry has also witnessed rapid growth. From being a trade handed down in families, it is now an industry that is organized and growing in leaps and bounds.

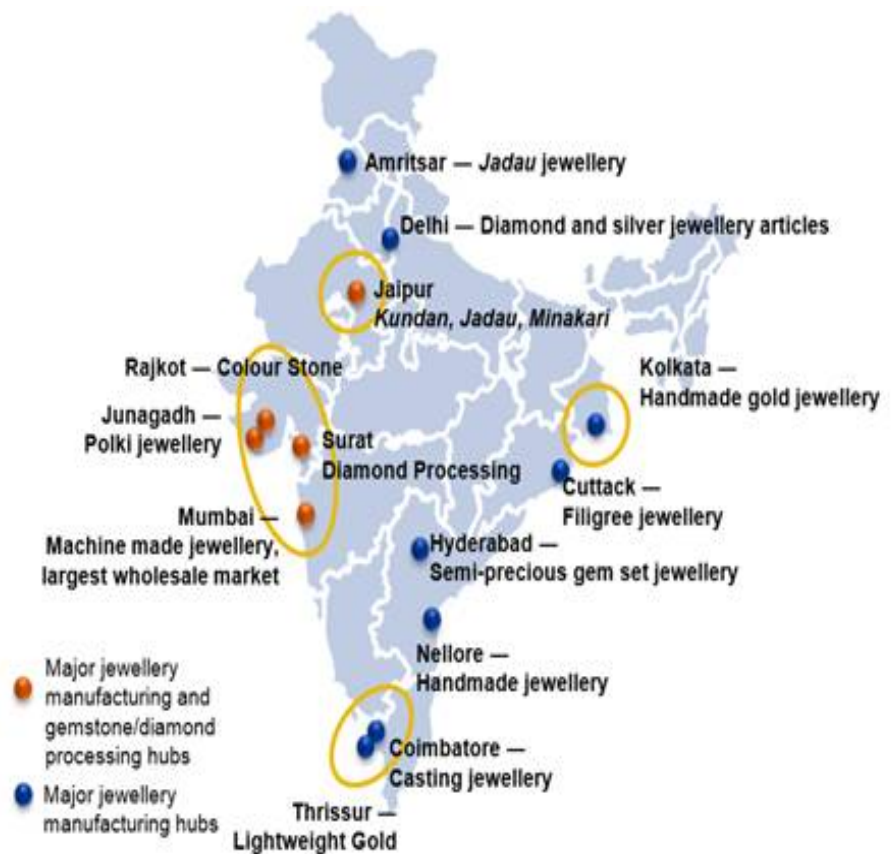


Indian craftsmanship is valued the world over for its finesse and execution. Currently, there are 4.6 million skilled artisans employed in the Gems and Jewellery industry and this figure is expected to almost double by 2022. This is due to the projected growth of the global jewellery market being around INR-11,20,200 Crores by 2022.

Reasons for this huge jump in demand include rising levels of income and increased spending on gems and jewellery both for investment as well as ornamentation. Additionally, a high utilization of various online platforms to buy unique pieces and creations. However, there are imposing challenges facing this industry today. These include the high cost of machinery, raw materials, and consumables. There is also a severe shortage of trained instructors to transfer skills and knowledge to the workforce. Health and safety conditions of the artisans are also a major cause of concern along with a reduced knowledge of the market pulse.

National Scenario:

India has rich cultural and historical heritage, variety in ecology, terrains and places of natural beauty spread across the country. There is a significant potential in the Gems and Jewellery sector with India also emerging as a preferred destination due to availability of abundant technical manpower at a low cost. Based on its potential for growth and value addition, the Government declared gems and jewellery sector as a focus area for export promotion. The Government has undertaken various measures recently to promote investment and upgrade technology and skills to promote 'Brand India' in the international market. The Government has permitted 100% FDI in the sector under the automatic route, wherein the foreign investor or the Indian company do not require any prior approval from the Reserve Bank or Government of India.



International Scenario: The market are expected to reach US\$ 100 billion is more organized and is marked by by 2025. In FY21*, exports of gems & jewellery stood at US\$ 21.89 billion. increasing customer preference which is tilting towards high end low maintenance, quickly manufactured product which is simple. Market size of the global gems and jewellery sector is likely to expand to US\$ 103.06 billion between 2019 and 2023. India's gems and jewellery exports

Demand of Skilled manpower required:

As per the study the industry is expected to require about double the amount of workforce in 2022-23 as compared to 2012-2013. The highest demand growth is expected to come from the cast and machined jewellery manufacturing segment and the lowest from the hand-made segment. All segments except the handmade are expected to increase productivity. This means that the fall in employment demand because of higher productivity is likely to be compensated by the expected 18-20 per cent average market growth. Jewellery retailing segment is expected to continue to contribute significantly to employment growth and be that largest employment segment. The gemstone processing segment is likely to turn to greater mechanization in the coming years, thereby increasing productivity and hence lower employment creation, although in the immediate future the employment demand remains high. The diamond processing is already mechanized and hence employment generation will come from market growth.

Employment	2012-13	2017-18	2022-23	Incremental (2013-23)
Cast and diamonds set	607,500	1,172,457	1,869,364	1,261,864
Handmade gold and gems set	880,297	954,416	1,218,446	338,150
Diamond processing	1,039,163	1,434,919	1,981,394	942,231
Gemstone processing	614,530	949,480	1,174,635	560,105
Jewellery retail	1,500,000	2,283,046	2,971,308	1,471,308
Total	4,641,490	6,794,319	9,215,147	4,573,658

Source: Skill gap analysis report by Gem and Jewellery Skill Council of India

Type of courses and industries that are on-board - Industry connect

To provide technical & behavioral being offered to cater to the local and upgradation, the following courses are national industries.

Sl.no	Name of the course/sector	Duration	Name of the institute conducting the course
1.	B. Voc. in Jewellery Design	3 years	Arch College of Design and Business, Jaipur
2.	B.A IN GEMS & JEWELLERY	3 years	Indian Institute of Gems and Jewellery (IIGJ) , Mumbai
3.	UG in Accessory Design	4 years	Pearl Academy , Delhi/Jaipur / Bengaluru
4.	Diploma in Gemmology	1 year	Gemmological Institute of India (GII), Mumbai
5.	JEWELRY DESIGNING CAD	3 months	Indian Institute of Jewellery Manufacturing, Ahmedabad

Type of courses and industries that are on-board - Industry connect

Widening skill gap- world economic forum estimates, almost 2.6 Million jobs may be displayed because of the shifts towards the machine. New job requires the work force to be adequately and appropriately skilled person to meet the growing demand.

Labour	<p>Recruiting is considered a huge challenge. 5 main reasons attached to it are:</p> <ul style="list-style-type: none"> Manpower available are limited in understanding machines, tools, quality standards and software etc. Low ability of quality personnel leads to rework, impacting turn-around time Poor exposure to market pulse Experienced and skilled designers are scarce and shift job frequently The reduction in manpower supply is driven by the fall in inherited skills with future generations preferring to work in sectors
Lack of standards & certification	<ul style="list-style-type: none"> Low mechanization/labour intensive Poor working conditions and infrastructure Predominantly by unorganized and informal business establishments/enterprises. Health and Safety concerns Career Progression is not uniform

Skill Gap	<ul style="list-style-type: none"> Automation is leading to de-skilling. This means people need to be trained in machine operations mainly. Lack of knowledge in grading of stones as per international standard Poor engagement with consumers in identification of right product (consumer fit), poor mathematical and communication skills up to the standard of the brand.
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In conclusion, the industry requires a systematic plan to train its workforce to effectively face the challenges in the coming years. The need of the hour is to focus on creating a strong foundation that the following courses aim to address. Furthermore, concerted efforts in terms of policy initiatives, investments,

infrastructure development and skill development will boost the performance of this sector towards state and national economy.

The current number of courses that cater to the huge requirements are less and these do not concentrate on addressing the

futuristic demands of the market. Hence, there is an urgent need to bridge this gap. Proposed are several comprehensive short and long term courses to augment the skills of the Gems and Jewellery sector through the DST/ ATS mode. These are

Proposed Short term courses for ITI's and NSTI's:

- Jewellery Designing using CAD Rhino/ Matrix:** Here artisans will be trained to use CAD Rhino/ Matrix to develop all types of jewellery and settings using built-in automated builders.
- Prototyping of imitation jewellery using 3D printing:** Recruits will be taught to make a prototype of jewellery models using the latest 3D printing technology.
- Manufacturing of imitation Jewellery:** Here the focus would be on sketching jewellery designs manually by using appropriate tools like paper, wood, terracotta etc.
- Jewellery Identifier, estimation and costing:** Students undergoing this course would be trained to understand the commercial aspects of the business.
- Gold and silver plater:** This course aims to train the students regarding plating and maintenance of the plated jewellery.
- Jewellery sales retailer:** Personnel desirous of working in the sales departments of the business would be trained in all aspects of interacting with customers.

Long term courses envisaged through the ATS mode:

- Jewellery Designing and Manufacturing:** This course is of one year and three months' duration is designed to cover all aspects related to design and manufacture keeping in mind the future requirements of the industry.
- Professional in Diamonds and Gemology:** Diamonds and precious gems require specific emphasis and training. This course aims to comprehensively cover it in two-year.
- Sales Ornament Professional:** This course is of one year and three months' duration and it will concentrate on the business in retail outlets which see a big footfall of customers.
- TOT program for Instructors in Jewellery and Other Ornaments:** This course is of one-year duration and it will cover theoretical or practical training for teachers and trainers. It will also cover training related to gems and jewellery course design.

[Content by: Sh. Harinath Babu, ISDS Regional Director, RDSDE Maharashtra as convener STCC Gem and Jewellery]

GOOD PRACTICES ADOPTED BY MODEL GITI PUSA, NCT OF DELHI

Initiatives to increase the participation of female candidates by Model GITI Pusa

- Reservation of 30% seats for Girls in each trade in the ITIs.
- No Tuition Fee for Girls Trainees in all trades.
- Counselling session during admission process and Help Desk for Girls.
- Celebration of International women day with the help of women employees of M/S Siemens and ITI Trainees.
- Participation in Sports & Swachhatta Bharat Abhiyan
- Participation of girls in "Run for Unity" event
- In Plant Training by Tata- Strive.
- "Children's Day" celebration by M/S Maruti Suzuki India Limited (MSIL)
- Different types of cultural activities.
- In-Plant Training by M/S Maruti Suzuki India Limited (MSIL) for girl trainees.
- Career Motivation Program by Quest Alliance
- "Mehandi & Rangoli" Competition etc.
- Modernisation of Girls Sewing Technology Trade
- Women Cell formation for girls' safety.



Newly upgraded lab of Sewing Technology trade at Model GITI Pusa, New Delhi

NSTI Mumbai - Completed 50 years on Skill Building for the Country



The Institute has completed 50 glorious years in skill building for our nation by conducting long term and short term courses. Many industrial establishments, institutions and organizations have utilized the technical know-how and expertise of this Institute and have achieved higher qualitative production and continue to depute their existing workforce for retraining and skill gap training. The faculty of the institute are experts who possess vast experience and are trained in

Hostel facility is available for students with 200 rooms on twin sharing basis for boys. There is a well-equipped Gym, Badminton court, open ground for playing cricket, football, volley ball etc. Safe drinking water coolers on every floor of hostel building. Mess facility also available at nominal rate. Type-IV Quarters are converted as Girls Hostel. Construction of two Hostel Buildings consisting 250 rooms with twin sharing basis of 10 floors is commencing shortly.

latest technology in the relevant field in India and abroad. This institute has well equipped classrooms, labs, workshop, dispensary and very well maintained garden area.

National Skill Training Institute Mumbai offers Craft Instructor Training under CITS of one year duration for various trades combining Trade Technology (TT), Engineering Technology (ET) and Training Methodology (TM). The objective of the Craft Instructor Training (CITS) is to train Instructors in the techniques of transferring hands-on skills, in order to train semi-skilled / skilled manpower for industry. CITS courses are offered in Computer Software Applications, Draughtsman Mechanical, Electronics Mechanic, Electrician, Fitter, Instrument Mechanic, Machinist, M.M.V., Turner and Welder (Gas & Electric). As well as IoT Technician-Smart Health Care, Solar

Technician, Technician Mechatronics, Machinist are the new age courses which are being conducted in NSTI Mumbai. New Age CTS Courses are designed to cater the demand of skilled manpower in newly emerging areas. These courses are on the lines of CTS (Craftsman Training



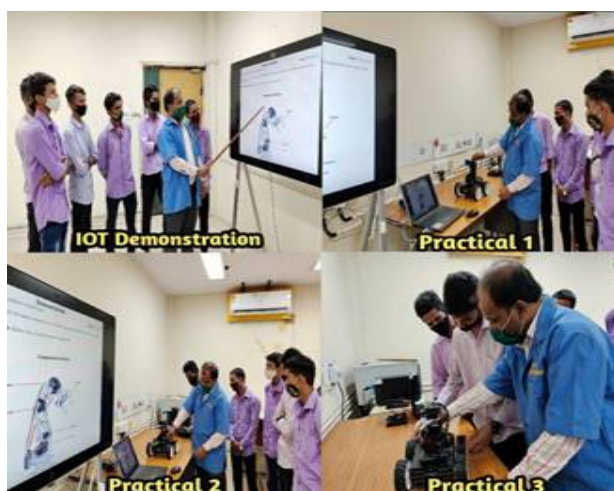
Scheme) pattern. NSTI Mumbai also offers two years Advanced Diploma Course on 'IT, Networking and Cloud Computing' and this course is being offered jointly with M/S IBM Limited.



Solar Panel installation – NSTI Mumbai

NSTI Mumbai has signed a MoU for Lab Setup of Solar Technician with CSR Funding of Rs. 36 lakhs from Hindustan

Petroleum. It has signed a MoU with Taloja Industries Association (TIA) which includes 973 active industries and with Additional Ambernath Manufacturers Association (AAMA) which includes 800+ active industries. These associations will coordinate with their industry member for placement of student training under DST Mode as per trade relevancy. It also has signed MoU for On the Job Training (OJT) with various industries for CITS and New Age CTS Courses trainees.



CTS - IOT Technician (Smart Health Care)



CTS - Solar Technician

Advanced Vocational Training Scheme (AVTS) at NSTI Mumbai

In order to upgrade and update the skills of serving industrial workers, this scheme was introduced in 1977 in collaboration with UNDP/ILO at the then 6 Advanced Training Institutes (ATIs) at Mumbai, Hyderabad, Chennai, Ludhiana, Kanpur and Howrah under Directorate General of Employment and Training (DGE&T) and 16 ITIs under administrative control of respective State Governments. Under the scheme, training in selected skill areas is being imparted through short-term modular courses of one to six weeks' duration. Tailor-made courses suiting to the specific requirements of industrial establishments are also offered.

AVTS courses conducted by NSTI Mumbai	Average Yearly output of Trainees trained under AVTS during 5 years i.e 2014-15 to 2018-19*
1) Advanced Electronics 2) Advanced Welding 3) Automobile 4) Electrical Maintenance 5) Industrial Chemistry 6) Metrology & Engineering Inspection 7) Machine Tool Maintenance 8) Advanced Tool & Die Making 9) CNC 10) CAD/CAM 11) Hydraulics and Pneumatics 12) Process Control Instrumentation 13) Unit Operation	2014-15: 3312 2015-16: 3343 2016-17: 3851 2017-18: 3775 2018-19: 2700

NSTI (W)- Mumbai



NSTI for Women located in the heart of Mumbai at Dadar west, offers following courses :

1. Craftsmen Training Scheme (CTS) - Dress Making, Electronic Mechanic, Architectural Draughtsmanship, Computer Operator & Programming Assistant, Basic Cosmetology, IoT Technician (Smart City) & Smartphone Technician-cum-App Tester etc.

2. Craft Instructor Training Scheme (CITS) - Dress Making & Architectural Assistantship trades.

3. Advanced Diploma Course on IT, Networking & Cloud Computing. (IBM)

The Labs and workshop are well equipped with the latest machinery, tools and equipments. The faculties are well qualified and professionally trained to impart the best training techniques. Wide range of books and other study materials are available in the library for trainees.



Institute supports in choosing apprenticeship with reputed organizations in the relevant trades. COPA and Electronics students get 100% apprenticeship every year.



List of Industry Partners for On-the-Job Training (OJT):

S.No	Trade	Name of Industry
1.	Architecture Draughtsmanship	M/s. JayantSinari, Prabhadevi, Mumbai
2.	Cosmetology	Yashankar Hair & Skin Care, Dadar (W), Mumbai
3.	Computer Operator and Programming Assistant(COPA)	1. Data Formatics Infotech, Dadar(W), Mumbai
		2. Suraj Info Solutions, Bhiwandi, Mumbai
		3. Informatics e-tech (India) Ltd, Thane (W)
4.	Dress Making	1. Suman Maheshwari Gopesh Enterprises, Goregaon (W)
		2. Eleena Exports Inc., Parel, Mumbai
5.	Electronic Mechanic	EEC India Pvt.Ltd, Andheri (W), Mumbai
6.	Internet of Things (Smart City)	Mitatronics, Mahape, Navi Mumbai
7.	Smart Phone Technician Cum App tester	Informatics e-tech (India) Ltd, Thane (W)

RDSDE Maharashtra and Goa :

Regional Directorate of Skill Development & Entrepreneurship (RDSDE) Maharashtra is an attached office of Directorate General of Training (DGT), Ministry of Skill Development & Entrepreneurship and has been step up vide Gazette Notification in December 2018.

RDSDE-Maharashtra is the nodal implementation and co-ordination body for training in ITIs under Craftsman Training Scheme(CTS), Apprenticeship training and ensures effective integrated development and monitoring of all the programs at state level. Further, it supervises central institutes of DGT located in the State of Maharashtra and Goa i.e. NSTI Mumbai & NSTI(W) Mumbai and NSTI(W) Goa.



Maharashtra - ITI Yawatmal

ITI ecosystem in the State of Maharashtra and Goa

SL. No	STATE	TYPE OF ITI	NO OF ITI	SEAT ALLOTTED	SEAT UTILIZATION (2020-21)
1	Maharashtra	Government	417	92836	75138
		Private	561	54976	27759
TOTAL			978	147812	102897
2	Goa	Government	10	3688	2172
		Private	03	216	89
TOTAL			13	3904	2261

Apprentice ecosystem of RDSDE Maharashtra

Maharashtra – CNC Lab at ITI Ghodegaon

There are total **22** ministries having **144** establishments in the state of Maharashtra and Goa which engages apprentice maintaining **3%** of the total manpower strength. In addition there are **575** establishments engaging the vocational apprentices in the State of Maharashtra.

In Focus - WORLD SKILLS COMPETITION, 2022: SHANGHAI, CHINA**History behind World Skills Competition:**

In 1946 World Skills rose out of the standards but an international movement ruins of the Second World War, which was born. By 1953, the competition had devastated the economies of Europe grew rapidly with young people from and created a huge skills shortage that Germany, Great Britain, France, Morocco threatened a new economic depression. In 1950, the small country of Rome took this with two competitors travelling to Spain challenge as an opportunity to introduce unannounced and at their own expense. In young people to the world of vocational 1958, the competition moved abroad for the first time, to Brussels in Belgium. Francisco Albert Vidal was charged with creating a skills contest for the youth of Spain and Portugal. So, the Madrid 1950 event was a modest event by today's

It was the start of the World Skills movement expanding across the globe. By the end of the 1960s, international competitions had been held in Germany, Great Britain, Ireland, the Netherlands and Switzerland.

Then came the biggest leap so far with Tokyo as the host city for the 1970 World Skills Competition. By the end of the 1980s, Atlanta in the USA, Sydney in Australia, Seoul in Korea, and Chinese Taipei had all welcomed what was becoming the world's greatest international vocational skills event.



In 2007, the World Skills Shizouka, Japan introduced One School One Country, now a staple of competition, in which pupils are introduced to vocational skills and the diverse cultures of the World Skills family by pairing each competition team with a local school in the host country.

So the 2009 WSC at Calgary, Canada saw the biggest competition to date, with 850 young people taking part from 47 countries. Just a year later, the World Skills movement broke through the 50 country target, with 53 members.



In 2017, World Skills Abu Dhabi took the competition to the Middle East for the first time, and introduced the International TVET Youth Forum where participants worked to create a Youth Declaration on the future of skills and training.



The last WSC held in 2019 was the 45th World Skills Competition held at the KAZAN EXPO International Exhibition Centre in Kazan, Russia in August 2019.

(Contents prepared by Ms. Bharti Sawhney, ADT, DGT, NSTI Dehradun)

46th WORLD SKILLS COMPETITION, 2022: SHANGHAI, CHINA

The 46th World Skills Competition, earlier postponed, will take place in Shanghai, China in October 2022. More than 50 skills across a wide range of industries - from joinery to floristry; hairdressing to electronics; and auto body repair to bakery are covered and listed below:

Manufacturing and Engineering Technology

- Industrial Mechanics, Mechatronics
- Manufacturing Team Challenge
- Mechanical Engineering CAD
- CNC Turning, CNC Milling, Welding,
- Electronics, Industrial Control,
- Mobile Robotics, Construction Metal Work
- Plastic Die Engineering, Prototype Modelling
- Chemical Laboratory Technology
- Water Technology, Industry 4.0
- Additive Manufacturing
- Industrial Design Technology
- Optoelectronic Technology
- Renewable Energy, Robot Systems Integration

Construction and Building Technology

- Wall and Floor Tiling
- Plumbing and Heating
- Electrical Installations
- Bricklaying, Cabinet Making
- Plastering and Drywall Systems
- Painting and Decorating
- Joinery, Carpentry
- Landscape Gardening
- Refrigeration and Air Conditioning
- Concrete Construction Work
- Building Information Modelling

Information and Communication Technology

- Information Network Cabling
- IT Software Solutions for Business
- Print Media Technology
- Web Technologies
- IT Network Systems Administration
- Cloud Computing
- Cyber Security
- Mobile Applications Development

Social and Personal Services

- Hairdressing
- Beauty Therapy
- Pâtisserie and Confectionery
- Cooking
- Restaurant Service
- Health and Social Care
- Bakery
- Hotel Reception

Transportation and Logistics

- Auto Body Repair
- Aircraft Maintenance
- Automobile Technology
- Car Painting
- Heavy Vehicle Technology
- Freight Forwarding
- Rail Vehicle Technology

[For more information visit: <https://www.worldskillsindia.co.in>]

Creative Arts and Fashion

- Jewellery
- Floristry
- Fashion Technology
- Graphic Design Technology
- Visual Merchandising
- 3D Digital Game Art



(Information sourced from: <https://worldskills2022.com/en/event/history> and <https://worldskillsindia.co.in/indiaskill2021>)
(Compiled by Ms. Bharti Sawhney, ISDS, ADT, NSTI Dehradun)



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- Training of Trainers
 - SOPs
- Management Development Programme

Training & Curriculum Development Activities during in CSTARI

JANUARY 2021

- Conducted one online TOT training program for duration of one week
- Trained 343 Master Trainers on blended learning for two days through online training.
- Preparation work on different Qualification Files for onward submission to NCVET approval through DGT (CD section) of different new qualifications under CTS, CITS, ATS and STC, which were designed and submitted by STCC.

FEBRUARY 2021

- Conducted two online TOT training programs for duration of one week each.
- Participated in the design process of OLCCC scheme for in service instructors training program in respect of existing CITS courses and for CTS trades which are not mapped with CITS trades.
- Preparation of ISDS officers training program and coordination with Advanced Training Institute Kolkata for Foundation course training and NSTI (W) for preparation budgetary proposal for development of new infrastructure and renovation of existing infrastructure of CSTARI hostel and other training facilities



सत्यमेव जयते



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4. Fitter 1st year (Vol I & II) - Trade Practical
5. Employability Skills SW - 1
6. Employability Skills SW - 2
7. Additive Manufacturing Technician - 3D Printing Trade Practical
8. Aeronautical Structure & Equipment 1st year (Vol II/II) - Practical
9. Aeronautical Structure & Equipment 1st year (Vol II/II) - Theory
10. Mechanic tractor - (Vol II/II) - Theory
11. Plumber(Vol I/II) - Trade Theory
12. Workshop Calculation & Science 1st year
13. Machinist -1st year (Vol I & II) - Trade Practical

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1. Machinist 2nd year(Vol I / II) - Trade theory
2. Physiotherapy Technician - Trade theory
3. R & ACT 2nd year (Vol I & II) - Trade theory
4. Fitter 1st year (Vol I / II) - Trade Practical
5. MMV 2nd year - Trade theory
6. Wireman 1st year Vol(II / II) Trade Practical
7. Wireman 1st year Vol(II / II) Trade theory
8. Mason (BC) Vol(I / II) - Trade Practical
9. Mason (BC) Vol(II / II) - Trade Practical
10. Mason (BC) Vol(II / II) - Trade Theory
11. Foundry man(Vol II/II) - Trade Practical
12. Foundry man(Vol II/II) - Trade Theory
13. Machinist -1st year (Vol II & II) - Trade Theory
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16. Turner 1st year (Vol II / II) - Trade Practical
17. Turner 2nd year (Vol II / II) - Trade Practical
18. Employability Skills SW - 2



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