

# SKILL TALKS

Directorate General of Training  
Ministry of Skill Development and Entrepreneurship



Directorate General of Training

**EMPOWERING  
THE NATION WITH  
PRECISION TRAINED MANPOWER**

“Friends,

Skill is something which we gift to ourselves, which grows with experience. Skill is timeless, it keeps getting better with time. Skill is unique, it makes you different from others. Skill is a treasure that nobody can take away. And, skill is self-reliance, it not only makes one employable but also self-employable. Skill की ये ताकत जो है, इंसान को कहां से कहां पहुंचा सकती है।”

**By Hon'ble Prime Minister Shri Narendra Modi  
Digital Conclave on World Youth Skills Day (WYSD 2020)**



## News & Events

### 1. MSDE Launched AI-based ASEEM Portal to Bridge Skills Gap

The Ministry of Skill Development & Entrepreneurship (MSDE) announced an AI-based ASEEM (Aatmanirbhar Skilled Employee Employer Mapping) digital platform to cement the skills gap in the country. The portal consists of three IT-based interfaces, namely,

- Employer Portal: for employer onboarding, demand aggregation, candidate selection
- Dashboard: for reports, trends, analytics, and highlights gaps
- Candidate Application: Creates and tracks candidate profile, and shares job suggestions

The AI-backed platform will strengthen the career pathways of the contenders by helping them attain industry-relevant skills and explore emerging job opportunities, especially in the post COVID era. ASEEM will aid employers, agencies, and job aggregators looking for skilled workforce in

specific sectors to get required details at their fingertips. It will also enable policymakers to take a more objective view of various sectors.

- The ASEEM digital portal and app (<https://smis.nsdindia.org/>) will map details of workers based on regions and local industry demands
- Database, of labour migrants in Indian states and overseas citizens returned to India Bharat Mission and filled SWADES Skill Card, has been integrated with the ASEEM portal
- Candidate data received to the Skill India Portal from various state and central skilling schemes will be integrated, including PMKVY, Fee-based Programs, National Urban Livelihoods Mission, Deen DI Upadhyaya Grameen Kaushalya Yojana, and Seekho aur Kamao.

**Date : July 10, 2020  
Theme : Skills Mapping**



Hon'ble Minister of Skill Development and Entrepreneurship Dr. Mahendra Nath Pandey, virtually launching the ASEEM portal



**A.S.E.E.M**  
Aatmanirbhar  
Skilled Employee  
Employer Mapping

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**Updates from NIMI, Chennai.**

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**From Editor's Desk**

We are bringing the second edition of Skill Talks with great zeal. The ongoing pandemic has made us realize the importance of vocational training. Despite lockdowns due to COVID-19 pandemic, trainers and trainees of our skill ecosystem have shown immense resilience and delivered their duty by conducting/ attending online classes.

We celebrated the World Youth Skills Day, commemorating 5 glorious years in the form of a Digital Conclave. DGT had proud moments with the e-inauguration of 2 NSTI Extension Centers at Leh and Imphal.

This issue focuses on Andhra Pradesh, Telangana, and Sikkim States. The specialty of our traditional cottage art and craft and the thrust on the manufacturing of defence products are some highlights of

this issue. NSTI, Howrah, showcased an affordable and much-needed prototype automated mechanical ventilator. The AI-based ASEEM (AtmaNirbhar Skilled Employee Employer Mapping) portal was launched to bridge the skills gap.

Further, our education system is ready to witness a major re-haul with the new National Education Policy (2020) that recognizes vocational education and training as an integral part of traditional education in schools and colleges.

We expect that such endeavor of documenting good practices should bring more insight in the system to evolve with pace in fulfilling goals set by our leaders.

Stay Safe and Stay Healthy!!

**2. प्रधानमंत्री ने विश्व युवा कौशल दिवस के अवसर पर युवाओं से कौशल प्राप्त करने, नया कौशल सीखने और कौशल बढ़ाने का आह्वान किया (Skill, Reskill, and Upskill) Skill India 5th Anniversary Celebration**

India's Skill India initiative completed 5 glorious years. This platform gives the youth a reason to dream and fulfill all their lofty goals. A mission started by Hon'ble Prime Minister 5 years ago is growing by leaps and bounds with each passing year.

**World Youth Skills Day**

History: In December 2014, the United Nations General Assembly adopted a resolution declaring July 15 as **World Youth Skills Day**.

**~equipping young people with skills for employment, decent work, and entrepreneurship~**

Goal: To achieve better socio-economic conditions for today's youth as a means of addressing the challenges of unemployment and underemployment.

The event was celebrated across India with a lot of vigour and enthusiasm via digital channels amid the ongoing pandemic. A digital conclave was organized by the Ministry of Skill Development & Entrepreneurship (MSDE). The inaugural address was delivered by Secretary, Ministry of Skill Development & Entrepreneurship (MSDE), Sh. Parveen Kumar. Hon'ble Prime Minister Shri Narendra Modi, in his motivational address to the youth of the country, stated the achievements of the Ministry in the past 5 years and showed immense confidence in the ability and skill of the Indian youth. He emphasized the mantra - Skill, Reskill, and Upskill. The speech of Hon'ble PM can be accessed on URL: <https://www.narendramodi.in/prime-minister-narendra-modi-addresses-world>

[-youth-skills-day-programme-via-vc-550553.](#)

The conclave was addressed by Hon'ble Minister of Skill Development & Entrepreneurship Dr. Mahendra Nath Pandey who addressed the youth of the nation as the biggest asset and an important force in the economic growth, and social development of the country. He emphasized on increasing the versatility of imparting different skills to the youth and meet the industry demands with the support of new technologies- nationally and globally. Hon'ble Minister of State for Power, New and Renewable Energy (Independent Charge) and Skill Development & Entrepreneurship Shri R K Singh stated about the progress made by PMKVY schemes, RPL

**Date: July 15, 2020**

**Theme: World Youth Skills Day**

**Activity: Digital Conclave**



(recognition of prior learning) and apprenticeship training programmes. The occasion was also graced by the address by Shri A M Naik, Chairman, NSDC and Group Chairman, Larsen & Toubro Ltd.

On this occasion, the Directorate General of Training (DGT) started two regional offices, which were

e-inaugurated, one at Union Territory of Ladakh, and another in the north eastern state of Manipur. The State Skill Development Ministers of the States of Gujarat, Karnataka, Assam, Punjab, and Uttar Pradesh also addressed the Digital Skills Conclave via video messages. All stakeholders of the system, including the extensive network of private partners and

trainees, participated in the conclave. Audio-visuals were displayed on 5 years of Skill India mission, innovative solutions by skill trainees during COVID-19, and Skill Mapping of Migrant Workers.

### 3. Address on WYSD 2020 by Secretary MSDE

The World Youth Skills Day was celebrated on 15th July, 2020 to commemorate the 5th anniversary of the Skill India Mission which was launched under the guidance of Hon'ble PM Narendra Modi in the year 2015. Under the prevailing Covid-19 situation, the event was marked by a Digital Conclave showcasing various achievements under the Mission.

Shri Praveen Kumar, Secretary, MSDE welcomed the key dignitaries, training partners and the ITIs and highlighted the key achievements under the Mission during the past 5 years and the futuristic plans for 2021 and beyond. He informed that the Ministry had implemented many new policies and strategies for the development of the skill ecosystem in the country - the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) was launched, expansion of ITIs and improvement of the training quality was undertaken, the new Apprenticeship Training model was launched and several JSS centers were activated.

The results are visible as more than 5.52 crore individuals have been trained across various programs during the last 5 years. During this period, 15,000 training partners have been created for short-term training and 15,000 ITIs are there for the long term training across the country. Each district of the country now has at least either an ITI or a training center or PMKK center as almost 700 PMKKs have been setup in the last few years. He also informed about the recently launched ASEEM portal through which a virtual Rozgar Mela is available 24x7, providing a platform for employers and employees.

Shri Praveen Kumar also commended the support provided by the Skill Ecosystem during the hard Covid time - preparation and distribution of masks by ITI and JSS trainees, deploying health personnel, innovative solutions designed by ITI students, turning the training centers into quarantine wards, etc. for the new normal.



He concluded his address by emphasizing that a strong base is now set up for future course of action wherein many challenges have to be tackled. New pathways are being introduced through short term training with launch of PMKVY 3.0, entire restructuring of ITIs, entrepreneurship, apprenticeship training and integration of skill training with the formal school system so that skill becomes aspirational for the youth of today and not a second choice. He hoped that we will be as successful in the next 5 years as we have been during the last 5 years.

### 4. Swachta Pakhwada to Fight COVID-19

#### History and Intention of Swachta Pakhwada

- **Inception:** April 2016
- **Intention:** Bringing a fortnight of intense focus on the Swachta-related issues and practices
- Swachta Pakhwada observed from 16.07.2020 to 31.07.2020



As the tradition of Swachta Pakhwada is observed every year following the line of vision of Hon'ble PM Modi, this year too, it was observed by the Ministry of Skill Development and Entrepreneurship (MSDE) and its administrative units National Skill Development Corporation, and JSS (Jan Shikshan Sansthan). The main aim of this movement is to spread awareness and practice good hygiene practices to inspire behavioral change and promote healthy living. Activities undertaken by DGT (Directorate General of Training) and its regional offices / institutions [RDSDEs/ NSTIs] across the country were:

- Pledges, tree plantation drives, cleanliness drives, online/physical drawing, and painting competitions

- Webinar on the 'Role of Hygiene in Fighting COVID-19 Epidemic' and 'Review of Preparations for Reopening of Training Centres'

- The hostels of National Skill Training Institutes (NSTIs) across India have been turned into quarantine or isolation facilities.



Online Swachta Pakhwada competition organized by NSTI women's Vadodara on 31/07/2020

### 5. Admission Schedule of the Craftsmen Training Scheme (CTS) : Session 20-21

Announced for admission to One and Two Year courses in Government and Private ITIs. For guidelines and other details, click on : [https://dgt.gov.in/sites/default/files/TrainingSchedule\\_2020.pdf](https://dgt.gov.in/sites/default/files/TrainingSchedule_2020.pdf)

Sl. No.	Activity	Timelines
1.	Online registration and admission of trainees by State Directorates	From 05.08.2020
2.	Last date for Admissions (both Govt. and Pvt. ITIs)	Up to 11.09.2020
3.	Start of Academic Session 2020 - 22	From 14.09.2020
4.	Data migration of each trainee with photo and verification by State	Up to 30.09.2020
5.	NCVET report and information dissemination by NPIU	Up to 07.10.2020
6.	Grievance registration & resolution by State & DGT	Up to 25.10.2020

### 6. MSDE announces the 'Kaushalacarya Awards' and the 'Master Trainer Awards'

On 5th September, 2019, on the occasion of Teachers' Day, the M/o Skill Development & Entrepreneurship had organized the 'Kaushalacharya Samadar 2019' event for the first time, to felicitate skill trainers from NSTIs, ITIs, JSS and reputed corporate houses for their contribution to the Skilling Ecosystem. It was also announced that this would be an annual event. Consequently, the Scheme of 'Kaushalacharya Awards' and 'Master Trainer Awards' has been formulated with an objective to identify talented skill trainers and Master trainers who have established competence in their area of specialization by recognizing their contribution and raising their prestige. The overall impact is to motivate more and more skill trainers to join the Skill India Mission.

The main features are :

- The Kaushalacharya Awards Scheme is open to regular skill trainers working in NCVET approved ITIs and NSTIs with atleast 05 years regular teaching experience.

- Each State will recommend name/s for Engineering and Non-Engineering trades which will be finally scrutinized by MSDE.
- Apart from selecting two winners for each State (one each for Engineering and Non-Engineering categories), MSDE will also select 03 awards in both categories.
- On similar lines the 'Scheme for Master Trainer Awards' has been formulated to felicitate 03 Master Trainers working in regular capacity in NSTIs (Training Officers/ Assistant Directors/ Deputy Directors, etc) with atleast 05 years regular experience.

Details pertaining to the criteria for selection, timelines, formats, etc. regarding the 'Kaushalacharya Awards' and 'Master Trainer Awards' Schemes may be viewed by clicking on

<https://dgt.gov.in/sites/default/files/FinalKaushalacharya.pdf>  
and  
<https://dgt.gov.in/sites/default/files/Mastertrainer.pdf>  
respectively.

### 7. Grading of Government and Private ITIs: Phase 2

Grading of ITIs was taken up in 2018 for the first time to rank ITIs on voluntary basis when all Government and Private ITIs were asked to follow self-grading on basis of the availability of infrastructure, equipment, faculty, trades, etc. . The same was verified independently by a third party. During Phase -1 of the activity 4811 ITIs were graded

However, since grading of ITIs was recognized as a quality assurance mechanism which would provide a benchmark for comparison between ITIs and help to identify key problem areas, it was made mandatory for all ITIs and consequently a third party was engaged to undertake the task under Phase-2 which began in December, 2019.

So far 10,765 ITIs have been graded on a scale from 0 to 5, based on 27 parameters which have been divided into 05 categories and the draft grades are published on DGT Website. Grading of remaining ITIs will be published after grievance handling and approval by the core grading committee.

The uniqueness of the entire process is that data collection has been through a mobile app and online grades

have been awarded to all ITIs. For the link to view the draft grades of ITIs inspected so far, click on:

[https://dgt.gov.in/Grading\\_ITI](https://dgt.gov.in/Grading_ITI)



**8. White Paper Launch : An Outlook for Youth on Platform Economy : By Quest Alliance**

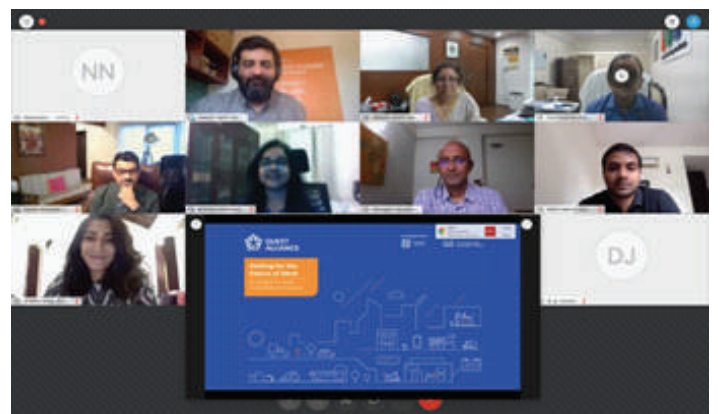
Quest Alliance is partnering with DGT to enable and equip the youth with self-learning job-specific soft skills like communication, professional etiquette, digital literacy, career readiness and life-skills by ensuring smooth delivery and deployment of digital Employability Skills curriculum. The organization is also working in close coordination with NIMI, Chennai for developing digital content for the blended mode of learning Employability Skills.

As part of the programme, Quest Alliance has to conduct research on enhancing employability of the skilled youth and share reports and White Paper for informing and guiding the future course of action. In this regard, a webinar was held on 22nd July, 2020 on the future of platform economy.

Sharing her views during the event, **Ms. Neelam Shami Rao, IAS, Director-General (Training)**, said, "Platform economies have the flexibility to meet the needs of the future of work. Education and skilling sectors therefore need to focus on building skills that will enhance employability opportunities, while also nurturing self-learning mindsets to ensure that the potential of India's demographic dividend is maximized. Our Industrial Training Institutes (ITIs) – which cater to as many as 2.4 million students at any point of time, are the key to ensure that youth in India are future-ready for the 21st century workplace."

The report presented by Quest Alliance in collaboration with Tandem Research and supported by Cisco as part of

the Future Right Skills Network, highlights that the Indian e-commerce sector has the potential to create 1 million jobs by 2023 alone and would be worth US\$ 200 billion by 2026. For the education and skilling ecosphere, digital work platforms are the answer to the acute challenges that young people – especially those from marginalized backgrounds – face while seeking employment. E-commerce, hyperlocal delivery of food and other products, logistics, and online freelance work are all set to see further platformization in the next few years. To maximize employment potential within these sectors, skilling in key areas such as entrepreneurial skills, communication and problem-solving, financial literacy and management, and digital fluency need to be prioritized immediately. Above all, these skills need to be rooted in a self-learning mindset that enables young people to reskill and upskill with agility, empowering them to navigate the changing nature of work.



**9. Success story of 17 girls skilled at Govt. ITI Berhampur, Odisha**

A good practice being implemented by the Govt. ITI Berhampur, Odisha is linking secondary schools to the ITI, hence creating awareness amongst the youth and ensuring that there are no vacant seats for the last 03 years. Women participation is also encouraged by reserving 30% seats in all trades.

Consequently, 17 women trainees of this ITI have been recruited by Freudenberg Ltd., at its Chennai office. These professionals were recruited through campus placements via digital platform and upon their selection, were provided clearance by the Tamil Nadu Govt. to join during the pandemic period.

## ROLEMODELS FOR THE STATE

**Radhika Behera**  
At- Jala, Engerangi, Gajapati  
Trade : ELECTRICIAN

**Pravasini Sahoo**  
At- Pandola, Agarapada, Bhubaneswar  
Trade : ELECTRICIAN

**Madhusmita Mohanty**  
At- Jagi Bari, Nandapur, Koraput  
Trade : ELECTRICIAN

**Tuni Das**  
At- K Nimina, K Baida, Kouda, Ganjam  
Trade : ELECTRICIAN

**Jamuna Jani**  
At- Guharguda, Panchasapalli, Khalkote, Ganjam  
Trade : ELECTRICIAN

**Saraswati Jani**  
At- Durgapada, Panchasapalli, Khalkote, Ganjam  
Trade : ELECTRICIAN

**Sudipta Pattanayak**  
At- Chanakya Nagar 1st Lane, Lanjipali, Berhampur (Gm.)  
Trade : ELECTRICIAN

**Didi Sethy**  
At- Badakusashahi, Berhampur, Ganjam  
Trade : ELECTRICIAN

**Ashalata Nayak**  
At- Ponda Colony, Bandahuda Street, Berhampur, Ganjam  
Trade : ELECTRICIAN

**Snehalata Bisoyi**  
At- Jayasingi, Ratanpur, Surada, Ganjam  
Trade : ELECTRICIAN

**Mamuni Badatya**  
At- Kuchik Nagar 1st Lane, Gosainvagam, Berhampur (Gm.)  
Trade : SEWING TECH. (CAS)

**Sujata Kumari Nayak**  
At- K Nuagada, Dantara, Beragada, Ganjam (Odisha)  
Trade : SEWING TECH. (CAS)

**Lita Maharana**  
At- Badasahi, Ambapua, Berhampur (Ganjam)  
Trade : SEWING TECH. (CAS)

**Kalpana Parida**  
At- Maheswarpur, Kanheipur, Khalkote (Ganjam)  
Trade : COPA

**Tulasi Sahu**  
At- Main road, Lochapada, Nimakhandi, Berhampur, Ganjam  
Trade : COPA

**Liza Sethi**  
At- Khedasingi, DhoBa Street, Berhampur, Ganjam  
Trade : ELECTRICIAN

**Mamini Pradhan**  
At- Jamapada, Ganjam-761005  
Trade : SEWING TECH. (CAS)

**17 Skilled in Odisha professionals from ITI, BERHAMPUR joined at CHENNAI at FREUDENBERG LTD. from Germany.... Crossing the pandemic of COVID wave.**

We have to live with CORONA...

## 10. National Education Policy 2020 and its Integration with Vocational Training

The global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to “ensure inclusive and equitable quality education and promote lifelong learning opportunities for all” by 2030.

This National Education Policy 2020 is the first education policy of the

21st century and aims to address the many growing developmental imperatives of our country. This Policy proposes the revision and revamping of all aspects of the education structure, including its regulation and governance, to create a new system that is aligned with the aspirational goals of 21st-century education, including SDG4, while building upon India’s traditions and value systems.

The Union Cabinet approved the New Education Policy (NEP) 2020 on 29th July 2020. The new NEP replaces the one formulated in 1986. The NEP 2020 is launched with the inclusion of valuable experiences and suggestions of key professionals of nearly 122 countries to make effective and sustainable education system in India while keeping in mind our ancient culture and system of knowledge.

### The focus of education policy is on:

- Employment generation
- Integrity with vocational training
- No rigid separation in the stream vertical
- Credit transfer
- Aspiration & Advocacy
- Capacity
- Quality
- Synergy
- Mobilization & Engagement
- Global Partnerships
- Outreach
- ICT enablement
- Teachers training
- Inclusivity

On implementation of NEP 2020, vocational training would be an attractive destination for the youth. The youth is expected to understand the power of skilled hands and accordingly come into the gamut of the skills like other developed countries, e.g. South Korea, Japan etc. **The aim is to integrate vocational education at all levels. By 2025, it is envisaged that at least 50% of learners will have exposure to vocational education.**

Integration of vocational training with education would be a big milestone and is expected to yield tremendously in the interest of the country for the employment of youth striving for it. The youth with skilled and professional hands would contribute significantly to the growth of the GDP of the country.



Sustainable Development Goal 4 (SDG 4) is the education goal. It aims to “ensure inclusive and equitable quality education and promote lifelong learning

opportunities for all.” SDG 4 is made up of 10 targets.

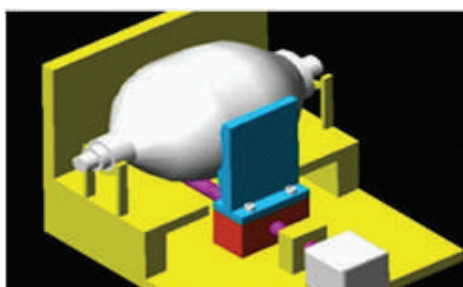
## “Atmanirbhar Bharat - Prototype Automated Mechanical Ventilator (Ambu-Bag based) by NSTI Howrah” - A Success Story

The National Skill Training Institute (NSTI) Howrah, Kolkata with the technical expertise of M/s Electro Meter Corporation (EMC) Kolkata has developed a “Prototype Ambu-Bag based Automated Mechanical Ventilator”. The ventilators are in high demand and required for treatment of COVID-19 patients who get acutely ill. The machine is designed to mechanically move breathable air in and out of the lungs of a patient who is unable to breathe normally. Fully automated versions of Ventilators available in the

market are imported and hence highly expensive (Rs. 10 - 15 Lakhs). Thus it was proposed to develop a relatively Simple Ventilator which can be made available at a low price (Rs. 60K Approx) to serve the essential purpose and also as a small endeavour towards “Atmanirbhar Bharat”. The design adopted is an open-source design by Massachusetts Institute of Technology (MIT), USA, which has been duly approved by the Food & Drug Administration (FDA), USA as an Emergency Ventilation System (EVS).

Based on expert projections in March 2020, the Ministry of Health & Family Welfare has projected the procurement of about 60,000 ventilators for COVID-19 patients. Bharat Electronics Limited (BEL) rolled out the first locally – made ventilator in May 2020. As per officials of the Ministry of Health, the ‘Make in India’ ventilators have a share of more than 96% of the 60,000 ventilators, according to a news story published in the Hindustan Times in July 2020.

The demonstration of the functioning of the prototype was conducted at NSTI Kolkata, Howrah, on the World Youth Skills Day (15th July 2020). The video of the demonstration can be found on YouTube via the link: <https://www.youtube.com/watch?v=Sqa-n8Vvk7Ik&t=4s>. Proposal for demonstration/ trials/ approval has been submitted to ICMR (Indian Council of ITIs Medical Research) and CDSCO (The Central Drugs Standard Control Organization).



3D View of ‘Ambu-Bag based Automated Mechanical Ventilator’



Prototype Model developed

**Strategic Manufacturing Sector – focus on manufacturing of Defence products**

**Introduction**

The Strategic Manufacturing Sector is constituted to particularly focus on the manufacturing of Defence products, mainly from Ordnance Factories, Defence Public Sector and Private Sectors. This sector also pools a huge manpower at different levels, especially the skilled ITI workforce.

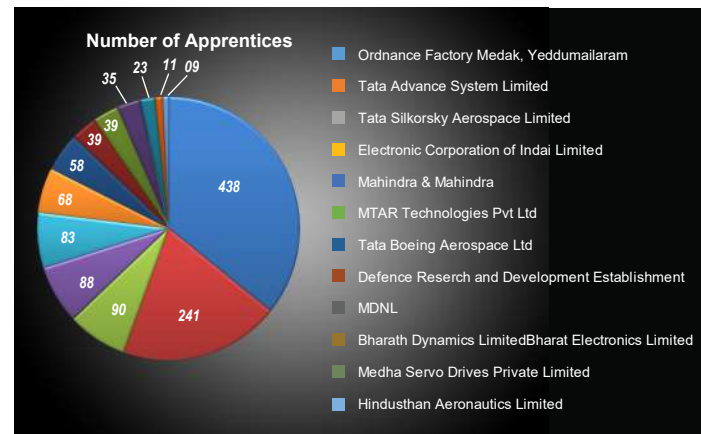
The Defence Manufacturing sector also relies upon private defence sectors including Micro, Small and Medium Enterprises (MSME). It attracts Foreign Direct Investment

**Indian Defence at glance**

India is the third-largest armed force in the world and has the 5th largest defence budget in the world. The Budget allocated for **defence** during the fiscal year **2020-21** stood at ₹471,378 crores (US\$65.86 Billions). India spends around 30% of its total defence budget on capital acquisitions. 60% of defence-related requirements are currently met through imports. India plans to spend \$130 bn on military modernization in the next five years, as achieving self-reliance in defence production is a crucial target for the Government of India.

The Department of Defence Production of the Ministry of Defence (DDPMOD) is responsible for the indigenous production of equipments used by the Indian Armed Forces. It is supported by Ordnance Factories (OFs) and Defence Public Sector Units (DPSUs) with about 2 lakh employees and a \$7.6 billion turnover. There are:

- 41 Indian Ordnance Factories under control of the Ordnance Factories Board (OFB).



(source : [www.apprenticeship.gov.in](http://www.apprenticeship.gov.in))

Apprentices engaged by the establishments in Telangana State (2019-2020)

**Skilled Manpower demand**

The Govt. of India has introduced many far-reaching reforms in defence production to create an ecosystem where private and public sectors contribute together as per their respective strengths and experiences. The Strategic Manufacturing Sector is expected to **employ about 2-3 million people**.

**Craftsmen Training Scheme (CTS) courses**

These courses are offered by ITIs throughout the country. The statewise details of these courses are

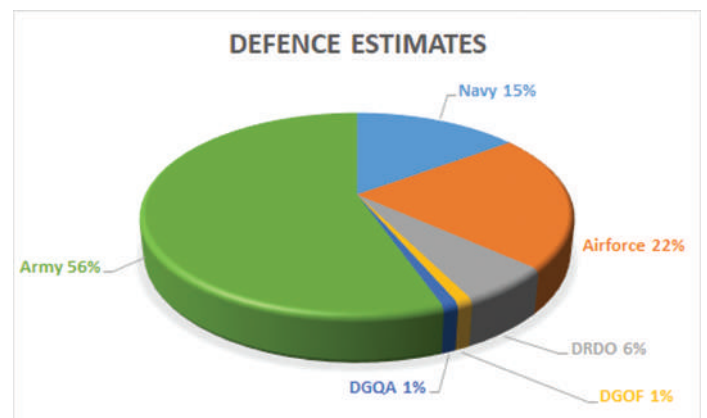
(FDI). The FDI would make India self-reliant due to indigenisation, enhance employability/ entrepreneurship and would demand skilling, re-skilling and up-skilling.

The defence manufacturing sector has high-end technology and advanced manufacturing techniques to design, develop and manufacture state-of-the-art defence equipment and products for the Indian Armed Forces. To achieve the dream of **self-reliance** in Strategic Manufacturing, the Govt. of India has adapted “**Make in India**” initiative for the establishment of Joint Ventures with Multi-National Companies (MNC) by Foreign Direct Investment (FDI).

- 10 Defence PSUs namely, Hindustan Aeronautics Limited (HAL), Bharat Electronics Limited (BEL), Bharat Earth Movers Limited (BEML), Bharat Dynamics Limited (BDL), Mazgaon Dock Shipbuilders Limited (MDL), Mishra Dhatu Nigam Limited (MIDHANI), Garden Reach Shipbuilders and Engineers Limited (GRSE), Goa Shipyard Limited (GSL), Hindustan Shipyard Limited (HSL), Cochin Shipyard Limited (CSL).

- More than 50 R&D labs under DRDO.

- Top defence private sector units, Tata Advance Systems Limited, Tata Power Sed, Reliance Novel and Engineering Limited, Mahindra Aerospace, Kalyani Strategic Systems Limited, Bharat Forge Limited, L & T India, Ashok Leyland defence, Adani Aero defence & Technologies Limited, Alpha Design Technologies Limited, Punj Llyod, Godrej & Boyce.



(source : <https://idsa.in/issuebrief/india-def-budget-2020-21-lkbehera-040220>)

Service/ Department-wise Allocation as a Percentage of Total Defence Estimates (Approx.)

**Long term training Courses under DGT**

There is a colossal manpower requirement of ITI skilled workforce in the Strategic Manufacturing sector of the above-mentioned defence production organizations. The Directorate General of Training (DGT) is already running courses in the following popular core trades for the defence production industries.

available on DGT's NCVT MIS portal [www.ncvtmis.gov.in](http://www.ncvtmis.gov.in).

Sl. No	Course Title	NSQF Level	Duration(Years)	Trainees seat count in the ITIs under CTS
1.	Fitter	5	2	6,16,211
2.	Welder	4	18	3,380
3.	Turner	5	23	7,752
4.	Machinist	5	22	7,568
5.	Operator Advance Machine Tool	5	2	400

[Source : [www.ncvtmis.gov.in](http://www.ncvtmis.gov.in)]

#### Apprenticeship Training Scheme (ATS) Courses

Sl. No	Course Title	NSQF Level	Duration (Years)	Type of Scheme	Apprentice count as per portal
1.	Fitter	5	2 years	ATS	1,07,918
2.	Welder (Gas & Electric)	4	1 year+ 3months	ATS	30,107
3.	Machinist	5	2 years	ATS	10,985
4.	Turner	5	2 years	ATS	9,355
5.	Machinist (Grinder)	5	2 years	ATS	1,160
6.	CNC Programmer cum Operator	4	1 year +3 months	ATS	377
7.	TIG /MIG Welder	4	1 year+ 3months	ATS	349
8.	Welder (Pipe & Pressure Vessels)	4	1 year+ 3months	ATS	107
9.	Advance Welder	4	1 year+ 3months	ATS	69
10.	Structural Welder	3	1 year+ 3months	ATS	41

(source : [www.apprenticeship.gov.in](http://www.apprenticeship.gov.in))

#### Craft Instructor Training Scheme (CITS) Courses

CITS is a one year course for training of trainers of ITIs at NSQF level 6. This training is offered by central institutes NSTIs / State Government run Institutes for training of Trainers (ITOTs) / Private ITOTs. Details of

relevant courses alongwith eligibility criteria for admission in above institutes is available on NIMI website for on-line admissions.

Sl. No	Course Title	NSQF Level	Seats in NSTIs	Seats in ITOTs
1.	Fitter	6	900	1040
2.	Welder	6	252	420
3.	Turner	6	325	100
4.	Machinist cum Operator Advance Machine Tool	6	50	NIL
5.	Machinist (Grinder)	6	25	NIL

(Source : <http://www.nimionlineadmission.in/2020/CITSProspectus2020.pdf>)

#### Short term courses

The following short-term training programmes are conducted under Strategic Manufacturing at National Skill Training Institutes in Hyderabad, Bengaluru, Chennai, Mumbai, Kolkata and Kanpur to upgrade the skill of ITI workforce, for continuous professional skill development of ITI Trainers/State Directorate in Advanced Technologies and for defence production organizations among others:

1. Auto CAD, Pro-E, Unigraphics, Master CAM, CATIA
2. Robotic Welding
3. CNC Turning Centre, CNC Turn Mill Centre, CNC Horizontal Machining Centre, CNC Vertical Machining Centre, CNC Vertical Milling and CNC Horizontal Milling
4. Advanced Metrology and Coordinate Measuring Machine(CMM)

Content by - STCC Convener for Strategic Manufacturing Sector - Sh. A. V. Rao(ISDS), Regional Director, RDSDE Telangana, Hyderabad



**India Towards A Global Electronics Hub**

Electronics is the world’s largest and fastest-growing industry and is increasingly finding applications in all sectors of the Indian economy. In India, it

is anticipated to reach USD 400 billion in 2022 from USD 69.6 billion in 2012, at a compound annual growth rate (CAGR) of 24.4% during 2012–2020.

**National Policy On Electronics - Hardware Manufacturing**

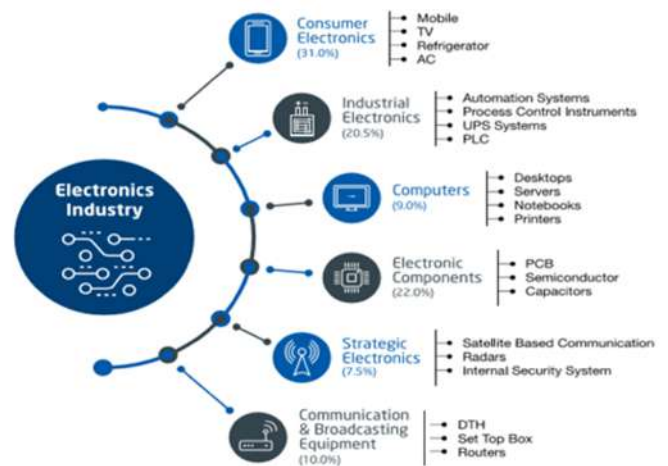
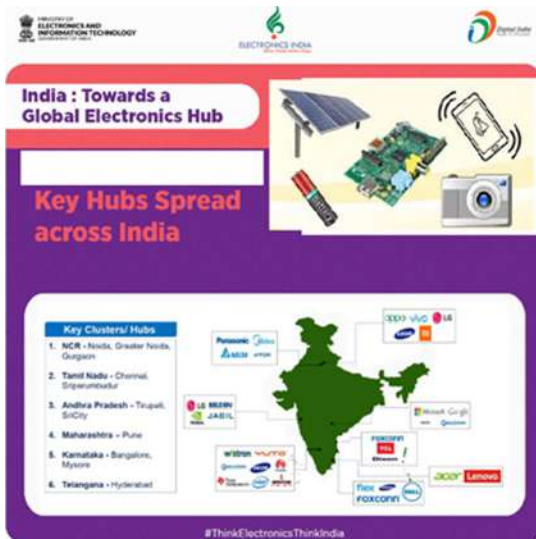
The Government of India attaches high priority to electronics hardware manufacturing and it is one of the essential pillars of both “Make in India” and “Digital India” programmes. The National Policy on Electronics 2019 (NPE 2019), prepared after extensive stakeholder consultation, envisages to position India as a global hub for ESDM (Electronic System Design & Manufacturing). The policy has a thrust on exports by developing core components, including chipsets, and creating an enabling environment for the industry to compete globally.

capacity will grow multi-fold with the establishment of the Electronics Manufacturing Services (EMS) facilities to manufacture products, such as televisions, set-top boxes, mobile phones and CCTVs in India.

There are over 500 Modified Special Incentive Package Scheme (M-SIPS) proposals that hold potential for investment worth INR 3 lakh crore in various Electronics Manufacturing Clusters (EMCs). The establishment of such EMCs is projected to attract a plethora of investments from electronics manufacturing units. They will also generate mammoth employment opportunities and provide tax revenue to the government to help drive the economic growth of the country.

The electronics sector consists of consumer and industrial electronics, computers, communication and broadcasting equipment, strategic electronics, and electronic components. The electronics’ manufacturing

India Towards A Global Electronics Hub



**Human Resource Requirement In Electronics & IT Hardware Industry:**

The industry employs over 4.3 million people across manufacturing, sales and marketing (including retail) and repair and maintenance segments. Further, this Electronics

and IT Hardware sector is one of the emerging sectors for employment growth in India. The subsector-wise human resource requirement is tabulated below:

**Incremental human resource requirement in the Electronics & IT Hardware Industry (in '000s)**

Projected Human Resource Requirement	2008	2012	2018	2022	Incremental
Consumer Electronics	204	298	532	686	482
Others (Industrial Electronics)	107	168	334	567	461
Computer	193	273	689	810	617
Telecom Electronics	184	400	880	759	575
Strategic Electronics	96	128	271	474	405
Electronics Component	149	179	164	834	685
Electronics & IT Hardware Industry	906	1,446	2,870	4,129	3,223
<b>Total</b>	<b>3847</b>	<b>4,904</b>	<b>7,758</b>	<b>10,281</b>	<b>6,448</b>

(Source: Data from NSDC report: Human resources and skill requirements in the Electronics & IT Hardware sector, 2022)

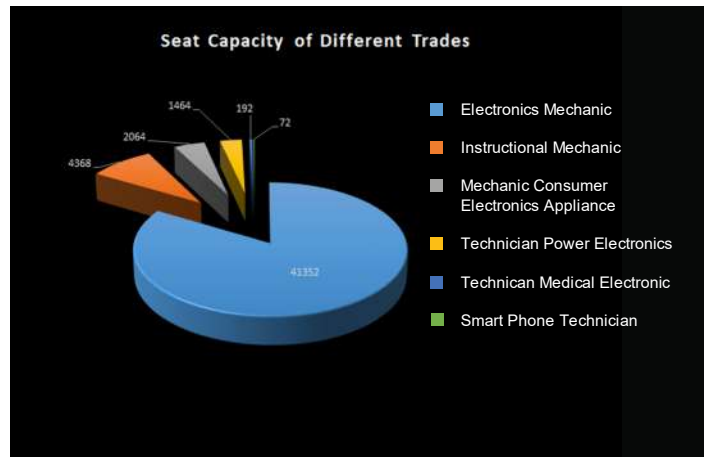
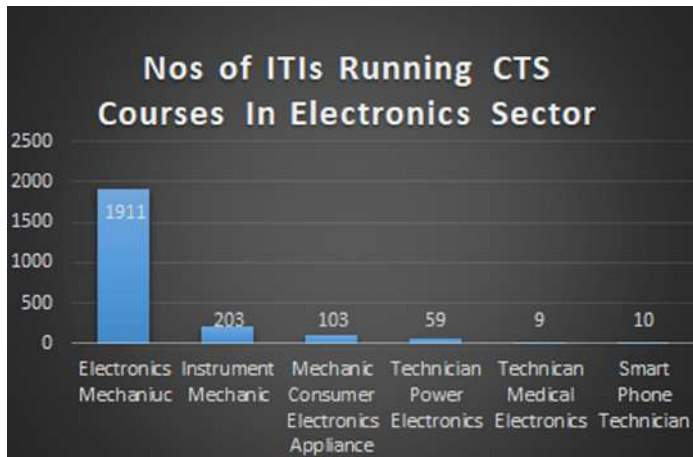
The industry is currently facing a shortage of skilled workforce in the emerging sectors such as IoT (Internet of

Things), Industry 4.0, embedded design, and other new age economy skill sets.

**Training in Electronics Sector – Skill Ecosystem Craftmen Training Scheme (CTS)**

To cater to the Electronics sector, under the DGT skill ecosystem, 5 CTS training programmes are offered under the Engineering trades. 2,295 ITIs are running

courses under the electronics sector pan India with a seating capacity of 50,112. Details below -

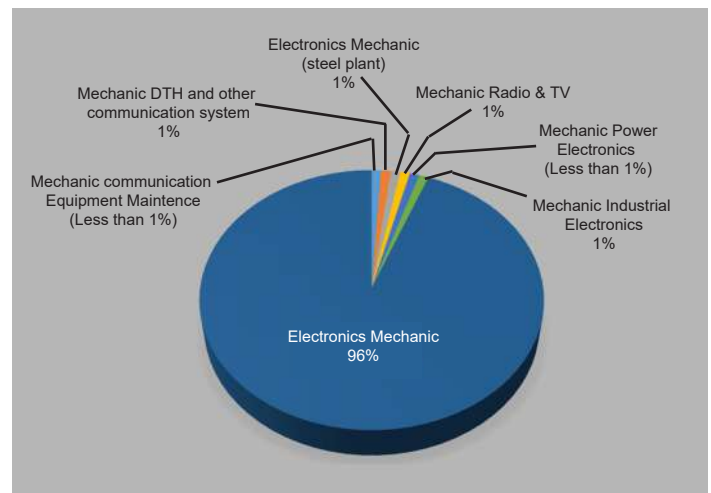


Data Source: <https://www.ncvtmis.gov.in/>

Crafts Instructor Training Scheme (CITS): DGT is also running the Training of Trainer Programme (CITS) in 'Electronic Mechanic' trade in through 11 National Skill Training Institutes (NSTIs) and 2 Institute for Training of Trainers (ITOTs) at Davangere and Talcher with a seating capacity of 550.

**Electronics Sector - Apprenticeship Training**

Under the Apprentice Training Scheme (ATS), under the courses implemented in the electronics sector, a total of 2165 apprentices are engaged and the following chart indicates the popularity of these trades with about 2000 apprentices enrolled under Electronic Mechanic trade and just four apprentices enrolled under Mechanic Power Electronics trade. There are about 1400 establishments registered on the apprenticeship portal for engaging apprentices.



(Data Source: [apprenticeship.gov.in](http://apprenticeship.gov.in) & [apprenticeshipindia.org](http://apprenticeshipindia.org))

**Short Term Courses For Electronics Sector Under Recognition Of Prior Learning (RPL) – PMKVY & PMKK:**

PMKVY & PMKK centres run various short-term courses of duration 200 to 438 hours for the electronics sector. These courses are offered at NSQF level 4, and entry qualification varies from 8th / 10th / 12th / ITI pass-outs/Diploma holder. The training is offered in 9 job

roles with about 6.6 lakhs candidates trained and 2.92 lakhs (54.28%) pass-outs placed. The most popular course is the 'Field Technician Computing and Peripherals' of 300 hours' duration.

Based on PMKVY Dashboard Status as on August 2020

Ministry of Electronics & Information Technology had taken up two scheme to develop skilled manpower for Electronics System Design and Manufacturing (ESDM) industries. The ESSCI, NIELIT and TSSC were Key Implementing Agency (KIA). The first scheme for financial assistance to select States/UTs for Skill Development ESDM sector was launched in November 2013 with the target to train

90,000 candidates across different levels from VIII pass, X pass, XII/ ITI pass-outs to BSc/Diploma holders. The second scheme, under the aegis of 'Digital India', was launched by Hon'ble Prime Minister in Dec. 2014 to cover all the States/UTs of the country with the target to train 3,28,000 persons in a period of 4 years. A total of 2,23,936 candidates were trained under the scheme.

(By Sh. Ujjwal Biswas, Joint Director of Training, NSTI Vidyanagar, Hyderabad, Telangana – Convenor-Sectoral Trade Course Committee (STCC) Electronics Sector)

## National Skill Training Institute, Vidyanagar, Hyderabad, Telangana



National Skill Training Institute (NSTI) [Formerly Advanced Training Institute (ATI)] Vidyanagar, Hyderabad is one of the premier institutes under DGT, MSDE. It was set up in 1963 with the primary objective to impart training

to the instructors of Industrial Training Institutes (ITI) as required for different vocational trades in the country. NSTI Hyderabad also has the mandate to upgrade skills of the industrial workforce in emerging areas.

Industries such as HAL, BHEL, BDL, DRDL, DGQA, SBC, Power Grid Corporation, INS, etc. have partnered with the Institute to impart high-end training as per requirement.

### History

Briefly, the journey of the Institute has been such:

- Started as CENTRAL TRAINING INSTITUTE FOR INSTRUCTORS (CTI) in 1963, focusing on training instructors.

- In the year 1966, Model Training Institute was set up for giving opportunities to the Instructor trainees to practice teaching.

- In the year 1976, Advanced Vocational Training Scheme (AVTS) was launched with the assistance from UNDP/ILO for providing training to the industrial employees for upgrading and updating their skills in new advanced skills in specialised areas.

- In the year 1982, with aid from UNDP/ILO, this Institute was upgraded to Advanced Training Institute (ATI).

- In the year 1989, Hi-tech Training Programmes were introduced under the World Bank assisted Vocational Training Project (VTP).

- In the year 2007, under the World Bank assisted Vocational Training Improvement Project (VTIP), Centre of Excellence (COE) for Automobile sector was established catering to the training needs of ITI Instructors in the Automobile sector in India.

In the year 2018, to have uniform nomenclature of all the central

institutes under DGT, the Institute was renamed as National Skill Training Institute (NSTI) Vidyanagar, Hyderabad.

#### Website

<http://www.nstihyderabad1.dgt.gov.in/>

#### Head of Office (HOO)

Sh. Ujjwal Biswas,  
Joint Director

#### Director

Sh. A.V.Rao, Regional Director,  
RDSDE, Telangana

### TRAINING ACTIVITIES:

Long Term Training Programmes: (Curriculum and eligibility etc. are available on the portal)

Craft Instructor Training Scheme (CITS)	Craftsmen Training Scheme (CTS) Under Dual System Of Training(DST)	Craftsmen Training Scheme (CTS) Under Dual System Of Training(DST)	Advanced Vocational Diploma
1. Electrician and Wireman 2. Fitter 3. Machinist 4. Welder 5. Motor VehicleMechanic 6. Turner	1. Solar Technician [MoU with E Mug Pvt.Ltd.] 2. Geo Informatics Assistant [MoU with Survey of India]  <i>[New age courses introduced during August 2019 session]</i>	Machinist [MOU with Sai Deepa Rock Drilling Tools Pvt.Ltd.]  <i>[Capital Intensive CTS Course continued by NSTI]</i>	IT, Networking and Cloud [MOU by DGT with M/S IBM Ltd.]



Solar Technician on OJT-Installing Solar Panel.



Snapshot of the classroom session for GEO Informatics at Survey of India under DST

### Industry Connect:

The Institute has industry connect for On job training for CITS apart from regular DST for CTS courses. M/S Medha Servo Drive Pvt. Ltd. Hyderabad, Bharat Dynamics Ltd. Hyderabad, Bharat Heavy Electrical Ltd. Hyderabad, M/S Sai Deepa Rock Drilling Tools Pvt. Ltd., M/S Kun United Hyundai (Service Centre for Hyundai

Vehicles), Central Ground Water Board Hyderabad, M/S Kirby Building System, and Survey of India are some of the industries where CITS trainees are going for OJT as well as Industry experts are coming from, as Guest Faculty to impart training.

### Advanced Vocational Training Scheme:

NSTI Vidyanaagar Hyderabad has state of the art Labs/Workshops to offer hands-on training in High technology area viz. CNC, CAD/CAM, Control Technology, Advanced Welding, Metrology, Automobile, Electrical

Maintenance. Courses are offered under the Advanced Vocational Training Scheme (AVTS) to cater to the need of the industrial workforce by providing tailor-made courses of 2 to 8 weeks duration.



Automobile Lab (COE)

Control Technology Lab  
(Hydraulics and Pneumatics)

CNC Lab

### Other Activities and Facilities at a Glance:

The Institute provides infrastructural facility on various skill initiatives viz. training programmes on NSQF for ITI instructors in the States of Telangana, Maharashtra and Madhya Pradesh; Apprentice Pakhwada for ITI graduates across Telangana state, Kaushal Yuva Samwaad – A Skills Talk of ITI graduates; Entrepreneurship Development Program (EDP) for 100 selected students under PM-YUVA programme, among others.

The Institute has a state-of-the-art hostel accommodation with 150 rooms, provided on sharing basis, along with mess facility at nominal charges. The hostel has various indoor and outdoor sports facilities like indoor gymnasium, Table

Tennis and reading room for newspapers and magazines. Similarly, outdoor sports facilities for Volleyball, Badminton and Cricket are also available to the trainees.

The Institute always promotes and encourages trainees to participate in various cultural activities and celebrate national events. This practice develops the personality of the trainees by building their confidence and improving communication skills and etiquettes. Similarly, to drive the innovation skills of trainees, the Institute organises different competitions – Live project competition, Banner and Slogan competition on technical themes, Show and Tell competition, etc.

Other Activities and facilities,  
Vidyanaagar, Hyderabad, Telangana

## Regional Directorate Of Skill Development And Entrepreneurship (RDSDE), Telangana

Regional Directorate of Skill Development and Entrepreneurship, Telangana is responsible for craftsmen training and apprenticeship training by ensuring efficient integrated development and monitoring of various programmes at the state level.

Central Field Institutes under the jurisdiction of RDSDE Telangana are:

1. National Skill Training Institute (NSTI), Vidyanagar, Hyderabad
2. National Skill Training Institute for Women, Vidyanagar. Hyderabad

3. National Skill Training Institute, Ramanthapur, Hyderabad

RDSDE Telangana is also entrusted with the monitoring of the implementation of Technician (Vocational) Apprentices under the Apprentices Act, 1961, since September 2017 in Telangana State.

### Number of Establishment Registered / Apprenticeship Completed under RDSDE Telangana

(Data collected from MIS Portal: apprenticeship.gov.in)

#### Establishment Registered and no. of apprentices who completed training under RDSDE Telangana

Establishment Type	Establishment count	No. of Apprentices
Central Govt.	65	3736
Central Public Sector Undertaking	43	5911
Private Sector	180	2068
State Public Sector Undertaking	5	1100

Under Technician (Vocational) Apprenticeship Training, 92 registered establishments engaged 696 apprentices.

### ACTIVITY HIGHLIGHTS:

#### 1. Apprentice Pakhwada:

State-level Awareness Programme / Workshop on Apprenticeship Pakhwada, Apprenticeship Awareness program, Skill Gap Analysis and BTP Awareness at Cherlapally Industrial Association, Hyderabad.



#### 2. IBM Artificial Intelligence (AI) Training:

3 days Training of Trainers Programme on 'Basics of Artificial Intelligence' for DET Telangana and DET Andhra Pradesh at NSTI Ramathapur campus. 634 Instructors trained.



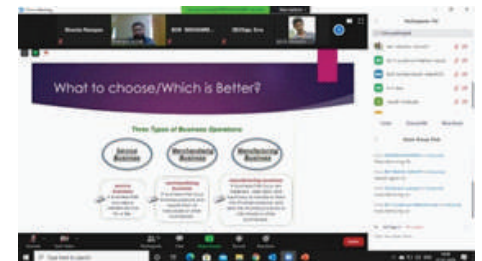
IBM Artificial Intelligence (AI) for ITI Instructors, DET Telangana

3. Pradhan Mantri YUVA Yojana is a flagship scheme under the Ministry of Skill Development and Entrepreneurship. As a part of the Pilot project 2.0 under Pradhan Mantri YUVA Yojana, Student's Orientation Sessions on Entrepreneurship were held at NSTI Vidyanagar and NSTI Ramanthapur by PM-YUVA Nodal E-Hub, Hyderabad. Student Orientation on Entrepreneurship was conducted along with Partner Organisation – ALEAP. Four hundred fifteen trainees were trained from various CITS and CTS trades.

- Programme at NSTI Vidyanagar: Expert faculties from ALEAP visited NSTI Vidyanagar and developed entrepreneurship curriculum during seven days workshop. The curriculum on entrepreneurship, designed by ALEAP, was conducted by Experts from ALEAP through group discussions, lectures and videos. Forty-two students completed this course.

- Programme at NSTI Ramanthapur: Due to lockdown, classes on Entrepreneurship Education Programme were started online by PMYUVA through WEBEX from 21 July 2020 for NSTI students who participated in the Orientation Session on Entrepreneurship. The online EDP classes are conducted by ALEAP Experts for 2 hours daily in a

workshop mode for ten days for the trainees. Experts make use of interactions and real-life examples to teach various entrepreneurial concepts. Forty-four students are enrolled in this programme.



EDP program beneficiaries - online class 21 Jul 2020

#### 4. District Skilling Initiative:

Awareness Programmes on DGT schemes are organised at District Collector's Office in Mahaboobnagar District as a part of the District Skilling initiative. The main emphasis is given on DST, NAPS, BTP, STRIVE Project and increasing the job potential of Mahaboobnagar District with various Industries, connecting Industries with ITIs, Entrepreneurship Development Programmes and Job Mela.

## Skill Ecosystem – Department Of Employment And Training, Telangana

The Industrial Training Institutes (ITIs) in Telangana are looked after by the Department of Employment and Training (DET). DET has two wings, namely, Employment and Training. The department imparts training to unemployed youth via long term and short term training programmes under different schemes of the government as listed below:

### Long-term duration training

S No.	Long-term	Courses	Trades Duration
1	Craftsmen Training Scheme[64 Govt. ITIs and 235 Private ITIs]Seating Capacity: 37,740Special Category ITIs –SCs/STs/Minorities/ Women	26	2 Year
		06	1 Year
2	Apprenticeship Training Scheme	52	1 & 2 Year

### Short-term duration training

S No.	Short - term Courses	Sectors	Duration
1	PMKVY (Pradhan Mantri Kaushal Vikas Yojana)	18	180hrs to 600hrs

### Admissions

- Annual online admission for Government or Private ITIs on portal [www.iti.telangana.gov.in](http://www.iti.telangana.gov.in) from July to September
- Transparent process with the affiliation status of both government/private ITIs displayed online
- Candidates from anywhere in the country can apply with a single online application
- All India Trade Test (AITT) conducted in January/July every year

DET Telangana is actively implementing the following Centrally Sponsored Schemes of DGT, MSDE, GOI:

#### 1. Upgradation of 1396 ITIs through PPP (Public Private Partnership)

- Under this scheme, Government ITIs are transformed into Centers of Excellence
- The total budget released to 30 ITIs is INR 7.5 crores and expenditure INR 5.7 crores.
- 7,790 trainees are undergoing training in these 30 ITIs

#### 2. Upgradation of Government ITI into Model ITI

- Government ITI, Mallepally is selected under this scheme. Trainees on the roll are 766.
- Estimated budget: INR 10 crores
- (cost-sharing between centre and state is 70:30)
- Two new demand-driven trades are introduced in Government ITI Mallepally in collaboration with M/s. Maruti Udyog Ltd., namely, Auto Body Repair and Auto Body Painting. 60 trainees are undergoing training. Maruti Udyog Ltd. is providing ToT and OJT for 15 days for every 2 months, and all 60 trainees have got a placement offer.

#### 3. Establishment of ITIs in 47 districts under Left Wing Extremism (LWE)

- Government ITI, Kothagudem is funded under this scheme and is under construction.
- Two skill development centres (SDCs) at Wazedu and Bhadrachalam have been funded with INR 4.75 crores. 491 trainees have already been trained and 40 trainees are presently undergoing training.

#### 4. Skills Strengthening for Industrial Value Enhancement (STRIVE)

- Institutes Strategic Plan of 10 Govt. ITIs with grading 2.0 are approved under the STRIVE project. New trades, which have demand, are proposed to be introduced under this project, while discontinuing specific unpopular trades. Each ITI will be funded to the tune of INR 1.5–2.5 crore depending on enrollments.
- State Apprenticeship Monitoring Cell (SAMC) is constituted at the state level. One industrial cluster has been selected under this scheme. District Apprenticeship Committees, involving District Collector and other District Officers, were constituted to improve engagement of Apprenticeship.

#### 5. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

- 27 Government ITIs are conducting short-term courses under PMKVY and INR 16 lakh of revenue has been generated
- Number of trainees enrolled: 7,008 and trained: 4,047
- Successful assessment: 3,415 trainees
- Number of placements: 973 trainees

**Apprenticeship Training**

- Engagement of apprentices who have passed ITI has increased
- Total trainees enrolment has been 22,025
- Out of which,
  - 17,363 trained
  - 14,606 assessed
  - 12,753 certified, among which 5,713 candidates were placed

**Achievements:**

- National Level Skill competitions were held in October 2018 at New Delhi
  - The ITI trainees of Telangana bagged 2 Gold, 2 Silver, and 1 Bronze medals
  - They also participated in World Skills competition held in Kazan, Russia from 23 August 2019
- By utilizing the existing infrastructural facilities in ITIs, INR 1.50 crore revenue is generated
- Government ITI Girls, Nizamabad, has achieved ISO 29990 certification
- Placement cells are established in each Government ITI with Training Officer designated as Placement Officer in all the 64 government ITIs.
- Continual inspections are conducted in all the Government ITIs for improving internal efficiency among the staff and better training for the trainees. 235 Private ITIs have been inspected and 81 private ITIs were recommended for de-affiliation. The proposals have been sent to the DGT.

**Institute - Industry Linkages:**

- Linkages are established with Industries for providing On-Job-Training (OJT) to the trainees and trainers. 60 Government ITIs have signed MoUs to provide training to trainers (ToT) and trainees for effective skill development and to provide placements. INR 9 crores have been mobilized under CSR so far. Latest equipment is also donated to 5 Government ITIs by Private industries.

SNo.	Name of Govt. ITI	Name of Industry MoU Entered With	Amount/Equipment Donated as per CSR Activities
1.	Govt. ITI, Old city, Hyderabad	Bharat Dynamics Ltd., Hyderabad	Civil works, machinery, and equipment worth INR 2.88 crores and provided ToT and trainees training
2.	Govt. ITI, Sanathnagar	Hyundai, Toyota, and Tata Projects	Toyota donated INR 1.00 crore on denting, painting, and welding. Hyundai donated INR 25.00 lakh worth of equipment/car. Tata projects donated INR 10 lakh worth of equipment and trainees training
3.	Govt. ITI, Alwal, Hyderabad	Midhani, Hyderabad	INR 94 lakh donated for civil works, upgradation of computer lab, and furniture
4.	Govt. ITI, Jawaharnagar	Hindustan Aeronautics Limited	INR 170.69 lakh worth of civil works and equipment agreed in principal MoU signed
5.	Govt. ITI Secunderabad	Ford India Ltd.	Donated INR 10 lakh worth of equipment and renovated workshop, provided ToT, and imparted training for 45 days
6.	Govt. ITI Sangareddy	M/s. Mahindra and Mahindra, Zaheerabad	Donated INR 1 crore for machinery and equipment, and provided ToT, trainees training
7.	Govt. ITI, Peddapally	M/s. Maruti India Ltd., Hyderabad	Donated working diesel engines
8.	Govt. ITI, Mallepally	M/s. Maruti India Ltd., Hyderabad	Equipment for two trades—Auto Body Repair and Auto Body Painting—donated besides OJT, ToT, and placements to trainees
9.	Govt. ITI, Karimnagar	NTPC, Karimnagar	ToT and equipment donated
10.	Govt. ITI, Kukunoorpally	TATA Aerospace	Donated pneumatic equipment, besides providing ToT, OJT, and apprenticeship
11.	Govt. ITI, Shantinagar	BDL	Donated INR 1 crore for construction of administrative building and workshops, besides providing ToT, OJT, and apprenticeship
12.	Govt. ITI, Kazipet	TATA Aerospace	Donated Rs.5 lakh worth of rebating equipment and compressors

**Administrative Reforms and Activities to Improve Quality of Training:**

- The anomaly in cadres of level 2 is addressed. The nomenclature Assistant Director of DLTC/ITI was changed to Principal of other ITIs.
- 20 trainers were deputed for NSQF training to Kolkata.
- All the 524 teaching staff trained were deputed in "Teaching through Artificial Intelligence" in collaboration with IBM.
- The training material for the trainees is translated to Telugu in collaboration with National Instructional Media Institute (NIMI), Chennai.
- Biometric attendance is being implemented in all Government ITIs for the staff and students.
- New job roles with fair market

demand and placement potential are being taken up as a part of PMKVY

- Women are given more importance and training in job. The training partners are assisting certified women candidates in self-employment and placements in the private sector.

**Innovations Under Covid-19 Pandemic**

- 44,723 face masks were stitched in 15 government ITIs and 5 Private ITIs . The stitched masks were handed over to the district administration for onward distribution to poor and municipal workers.
- 845 instructors were trained on ADOBE learning tools software. These instructors are conducting online classes through Zoom, Goole Duo, YouTube, Bharat Skills app during the lockdown. 24,738 topics were covered
- and 60% of the trainees have availed the opportunity.
- The staff and trainees of Government ITI Medchal and Government ITI Mancherla assembled a pedal sanitizer in lockdown with the material available in the ITI.
- The pedal sanitizers were supplied to Medchal PS, SBI Medchal, BOI Khiatabad Branch and installed at TS Secretariat, and VIP entrance.

- The staff and trainees of Government ITI Mancherla have manufactured sanitization tunnel.



Masks Distribution by Principal, ITI Mallepally



Donated to SBI Medchal



Donated to Medchal Police Station



Pedal sanitizer machine

**Success Story of ITI and Trainee**



**ITI Success Story**

Name of institute	Govt. ITI. Old City, Hyderabad
Year of inception	1972
Number of students /strength	447
Partnership/ Unique Offerings	MoU with BDL Hyderabad under CSR funding MoU with Honda Motors Pvt.Ltd.



Name	Mohd Kaleem Pasha
Current Status/Designation (Job/Own business)	Own Business -Automobile Workshop
Institute name and location (from where he/she trained)	Govt. ITI,Old City, Hyderabad
Year of completion of training	2015-2017

Trade studied	Mechanic Motor Vehicle
Approximate annual salary/turnover	336,00,000 (15 members employed in the workshop)
Testimonial	Alumni contribution happens in various on the job training of current ITI trainees



**Promotion of Traditional Cottage Art and Craft - Sikkimese Design**

Sikkim is renowned for its dazzling and appealing beauty. The cultural richness of Sikkim is visible in its quality handicrafts. The Government of Sikkim is making constant

efforts to keep the arts & crafts alive. Keeping the idea in mind, the Govt. has established Handicraft and **Handloom Institute (HHI)**.



The Directorate of Handicrafts and Handloom (DHH), Commerce & Industry Department, began its history in the year 1957 and over the years, this Institute has evolved into a major centre of learning and training in the Traditional Arts and Crafts of the State. The growth and expansion of DHH in terms of physical assets, infrastructure and manpower, has been impressive, having on date as many as 32 branch training centers throughout the State with a total no. of 388 trainees and imparting training to rural youth in nine specific crafts, namely:

1. Carpet weaving
2. Handloom Weaving
3. Blanket Weaving
4. Wood carving
5. Multicrafts
6. Thangka Painting
7. Mask Making
8. Soft Toys Making
9. Cane & Bamboo

The Directorate's primary objective is not only to preserve and showcase the traditional arts and crafts of Sikkim but to promote and disseminate information regarding the policy

orientation of the government in setting the highest standard comparable to the best in the world for arts and crafts, skill development and environment-friendly working culture. The state government has acknowledged this sector as one of the thrust areas for the creation of skilled human resources and self-employment generation. Various courses are offered under CSR initiative and in collaboration with the institutions on entrepreneurship. Trainees are encouraged by providing them stipend @ Rs. 2000 pm and Trainers, as local artisans, by regularising their service.



Sikkimese Choktse Table

Sikkim Art and Craft: Handicraft and Handloom Institute (HHI) is a reservoir of eye-catching handicraft and handlooms like carpets, wood carved furniture, Thangkas and canvas wall hangings. The handicrafts of Sikkim have a kind of appeal in them, whether it is the fantastic woven carpet or amazing 'Choktse' table. Sikkimese carpets are especially known for being hand-knotted with artistic designs. 'Choktse' is a kind of foldable table and has become a unique product of Sikkim, which is in demand outside India also.



Thangka Painting

**Directorate Of Craftsmanship Training Scheme & Employment (DCTS&E), Skill Development Department, Govt. Of Sikkim**

**An Overview:**

The DCTSE was constituted in 2010 and it looks after all ITIs of the State. Most of the trades in these ITIs are affiliated to the National Council of Vocational Training (NCVT) and few trades of ITIs are running under the State Council of Vocational Training (SCVT). Few highlights are given below:

1. Three ITIs are running at present at Rangpo (East Sikkim), Namchi (South Sikkim) and Gyalshing (West Sikkim).

**Achievements:**

- 652 seats are there in 24 trades under Craftsman Training Scheme (CTS)
- The overall pass percentage of three existing ITIs for the year 2019-20 is 84.74%.
- Govt. ITI, Gyalshing, West Sikkim - approved and sanctioned upgradation under Skill Strengthening of Industrial Value Enhancement (STRIVE)
- Computer Laboratory has been set up at Govt. ITI, Rangpo, East Sikkim with CSR funding in the year 2019-20.

2. New Govt. ITI construction at Kewzing, South Sikkim is almost complete.



Sikkim State - Location of Government ITIs

- Index: ▲ Existing Govt ITIs  
▲ Govt. ITIs under construction

3. Govt. ITI at Chandey, Mangan, North Sikkim is constructed by the **National Hydro Electric Power Corporation (NHEPC) Limited**.
4. New Govt. ITI construction at Chumbong, Soreng, West Sikkim is sanctioned, land identified and acquired
5. New ITI at Aritar, Rhenock, East Sikkim is at the proposal stage where land is identified and acquired.
6. Sokaythang Hospitality Training Institute (SHTI) is being run by the Regal Institute of Management Studies (RIMS) and the Institute offers "Food Production (Cook General) Course" under the DCTS&E.



Government ITI, Rangpo, East Sikkim

The State of Sikkim has four districts and East Sikkim District has one existing Govt. ITI at Rangpo and one upcoming is at Aritar, West Sikkim District has one existing Govt. ITI at Gyalshing and one upcoming at Chumbong, South Sikkim has one existing Govt. ITI at Namchi and one upcoming at Kewzing



Government ITI, Rangpo, East Sikkim

#### Ongoing Schemes in Sikkim:

- Enhancing Skill Development Infrastructure in North Eastern States
- Upgradation of existing Government ITI into Model ITI: Government ITI, Namchi is covered under this scheme.
- National Apprenticeship Promotion Scheme (NAPS): Till date a total of 66(sixty-six) Apprentices have been supported under NAPS.

*(By Dr. I.B. S Yadav, Deputy Director, Skill Development Department under the guidance of Sh. D. L. Ramudamu, Director I/C, DCTSE, Govt. of Sikkim)*



Government ITI, Namchi, South Sikkim

whereas North Sikkim District has one upcoming Govt. ITI at Chandey, Mangan. North Sikkim district is the largest in area but least populated whereas East and South Districts are more populated.



Government ITI, Gyalshing, West Sikkim



The DCTSE, Sikkim, constituted in August 2010 and is headed by a Director. It was created by the Sikkim Government in 2010 under the scheme which was introduced by the Government of India in 1950. DCTSE, Sikkim has operational institutes - three Government ITIs, one Sokaythang Hospitality Training Institute (SHTI) and one Apparel Training & Design Centre(ATDC), Sokaythang.

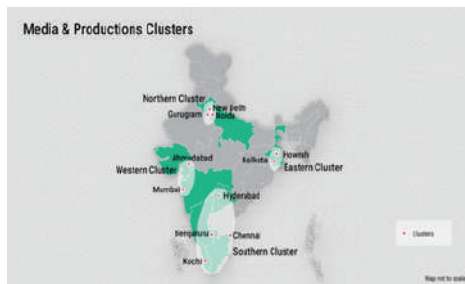
Source : <https://sdedssikkim.in/AboutSDED.aspx>

## Indian Media and Entertainment (M&E) industry - a sunrise sector for the economy

The Indian Media & Entertainment industry is a sunrise sector for the economy and is making significant strides, backed by rising consumer

demand and improved advertising revenue. This is largely driven by increasing digitisation and higher internet usage over the last decade.

Internet has almost become a mainstream media for entertainment for most of the people.



India has 5th largest media and entertainment market in the world

Indian advertising industry is projected to be the second fastest growing advertising market in Asia after China

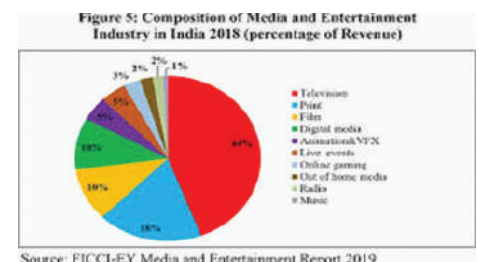
Media is consumed by audience across demographics and various avenues such as television, films,

Out-of-Home (OOH), radio, animation, Visual Effect (VFX), music, gaming, digital advertising, and print.

### Market Dynamics

- The Indian Media & Entertainment industry will touch \$ 34.8 bn (Rs 2.35 trillion) by 2021.
- At present, advertising revenue accounts for around 0.38 per cent of India's gross domestic product. This market is projected to grow 10.62 per cent year-on-year to Rs 85,250 crore (US\$ 12.06 billion) till 2021.

- India ranks 15 in the world in the music industry and is expected to enter the top 10 music markets by 2022.
- The online video market in India is estimated to reach US\$ 4 billion by 2025. India's video streaming industry is expected to grow at a CAGR of 21.82 per cent by 2023.



### Recent development/Investments

Foreign Direct Investment (FDI) inflow in the Information and

Broadcasting (I&B) sector (including Print Media) for the period April 2000 –

March 2020 stood at US\$ 9.20 billion (as per the Department for Promotion of Industry and Internal Trade).

### Government Initiatives

- The Government of India has agreed to set up National Centre of Excellence for Animation, Gaming, Visual Effects and Comics industry in Mumbai.
- The Indian and Canadian Government have signed an audio-visual co-production deal to enable producers from both the countries exchange and explore their culture and creativity, respectively.

- The Government of India has supported M&E industry's growth by taking various initiatives such as:
  - digitising the cable distribution sector to attract greater institutional funding,
  - increasing FDI limit from 74 per cent to 100 per cent in cable and DTH satellite platforms,

□ granting industry status to the film industry for easy access to institutional finance.

Also the Telecom Regulatory Authority of India (TRAI) is set to approach the Ministry of Information and Broadcasting, Government of India, with a request to fast-track the recommendations on broadcasting, in an attempt to boost reforms in the broadcasting sector.

### Skill Sector:

There are 64 QPs, with NSQF level 3 to 7, under Short Term Courses with duration ranging from 160 – 780 hours.

The Sectoral Trade Course Committee of DGT on Media & Entertainment sector is in the process

of designing courses with huge potential for employment/self-employment i.e. Video Editing, Camera Operation & Video production, Broadcasting, Gaming and Animation, Social Media Content creation etc. These courses would be integrated in

the large network of ITIs and Central Institutes(NSTIs) of DGT.

(By Sh. TVL N Rao (ISDS), Regional Director, RDSDE Vijaywada, Andhra Pradesh Convenor-Sectoral Trade Course Committee (STCC) Media and Entertainment Sector)

### RDSDE Vijayawada, Andhra Pradesh

Regional Directorate of Skill Development and Entrepreneurship (RDSDE) Vijayawada, State of Andhra Pradesh has been newly setup vide Gazette of India notification dated 08th Jan 2019, issued for 22 RDSDEs across the country. RDSDE is set up in rented building at NTR Administrative Block, 2nd Floor, Pandit Nehru Bus Station, Vijayawada, Andhra Pradesh

and became operational effectively from 1st April 2019 onwards. RDSDE, Vijayawada is implementing and monitoring various schemes as per gazette notification.

There are 55 Central government establishments, 39 CPSU, and 50 private establishments under the purview of the State for implementation

of apprenticeship training in designated trades.

RDSDE Vijayawada is also responsible to coordinate with Department of Skill and Training, Government of Andhra Pradesh, in implementing the DGT guidelines for ITI ecosystem.

### Department of Skill and Training, Andhra Pradesh – An Overview of Skill Ecosystem:

Total No. of Govt. and Pvt. ITIs	510
Total Seating Capacity in Govt. & Pvt. ITIs	1,40,732
No. of Government ITIs	82
No. of Private ITIs	428
Seating Capacity in Govt. ITIs	28,505
Seating Capacity in Pvt. ITIs	1,12,227
No. of Engineering Trades	31
No. of Non-Engineering Trades	09
No. of Two year duration Trades	21
No. of One year duration Trades	19
Exams under Craftsman Training Scheme	January & July

### Admission in ITIs and Examination Result

Year	Total seats	Seats Filled	%	Appeared	Passed	%
2017	1043	52515	74	46,709	41,925	90
2018	76780	60430	79	49,366	42,611	86
2019	74150	57682	78	48,555	43,365	89

### Establishments offering Trade Apprenticeship Training (number of apprentices)

Establishment type	Cottage	Large	Medium	Micro	Other	Small	Total
Central government	-	15	27	-	6	7	55
Central Public Sector Undertaking	-	30	1	-	6	2	39
Private Sector	2	200	635	315	345	2540	4037
Establishment type	Cottage	Large	Medium	Micro	Other	Small	Total
State government	-	16	15	2	17	13	63
State Public Sector Undertaking	-	32	4	1	3	4	44
Grand Sector	2	293	682	318	377	2566	4238

### Good Practices by State Government of Andhra Pradesh

- Established Digital Class Rooms in 13 Govt. ITIs to promote learning on Digital platforms in collaborations with Andhra Pradesh State Skill Development Corporation.
- Communication and Life skills training to all the trainees in Govt. ITIs in collaboration with Nandhi Foundation.

**INDUSTRY LINKAGES**

• **Dual System of Training (DST):** Training under DST started in 18 Govt. ITIs in the 7 trades in 19 units. The trades are Engineering trades under CTS - Fitter, Electrician, Mechanic Motor Vehicle, Mechanical Diesel, Electronic Mechanic, Welder and Turner.

• **Technical - Skill Development Institutes T-SDIs:** Technical - Skill Development Institute (T-SDI) was established in May 2017 with an aim to develop skilled, in a tie-up with Siemens and Andhra Pradesh State Skill Development Corporation (APSSDC), offers skill training to students of high schools, ITIs, polytechnic & engineering colleges in the region.

M/S SIEMENS T-SDIs: Total 4342 number of ITI students were trained at different t-SDIs in the state. 79 Govt. ITIs are mapped to Siemens t-SDIs and the students are undergoing training in the following 9 different courses. Feedback from the students and teachers is really excellent.

- i. Electronics Home
- ii. Electronic Office
- iii. Electrical Home
- iv. Auto 4 wheeler
- v. Auto 2 wheeler
- vi. CNC Milling
- vii. CNC Turning
- viii. Welding
- ix. Solid Edge



Siemens-Samsung Training on CNC Machines and Electrical circuits



Siemens-Samsung Training on CNC Machines and Electrical circuits

• **Skill Development Centre (SDC):** The Andhra Pradesh state's industrial policy (2020-23) includes setting up of 30 skill development centres (SDCs) and two skill development universities with a focus on cutting edge analytics and smart manufacturing using Internet of Things, predictive maintenance. The curriculum is prepared while categorizing the courses into two modules - for finishing skills and alternative employment courses. The government has partnered with four international institutes

- Singapore Polytechnic, Van Hall Larenstein (Netherlands), GIZ and Department for International Development in designing the skill development curriculum. The industries such as Dell, Tata, HP, IBM, Biocon etc. have come forward to join hands with the government on curriculum and lab infrastructure in these skill centres.

(Source: <https://www.deccanherald.com/national/south.html>)



HITACHI training on R&C in State of A.P



HITACHI training on R&C in State of A.P

**HITACHI MODEL SDCs:** Hitachi has started two SDCs at Govt. ITI Kakinada (EG Dist) and Govt. ITI, Vijayawada during October 2018 in Air-conditioning sector



सत्यमेव जयते



# NATIONAL INSTRUCTIONAL MEDIA INSTITUTE (NIMI)

Ministry of Skill Development and Entrepreneurship

Government of India

## Blended Learning

Directorate General of Training in association with National Instructional Media Institute has developed blended learning courses for ITI students of the Nation to augment the tradition classroom-based Skill training in force. These courses are hosted through an open source Learning Management system to impart Skill Training to students through blended mode of Learning. In the initial Phase of development of blended learning 6 most popular trades are being developed.

The platform is user-friendly and is also powered by a mobile application which supports offline learning. The blended online courses are structured week by week to help the Trainee travel in the skill path with interest and ease. The blended learning course starts with a course overview, syllabus of the trade and Learning outcomes. Every week is filled with a mixture of the following training and learning components

- Weekly learning Plan
- scheduled Live virtual classes
- Reading materials in eBook format
- Recorded interactive Video lectures
- Quizzers to test the students understanding
- Assignment
- Gamified Learning Modules
- Discussion Forum for participative learning
- Live practical sessions
- Industry walkthrough Videos
- Reference materials
- Live doubt clearing sessions at the end of the week
- Downloadable folder containing PPTs, Lecture notes and PDF of reading material
- Skills to be learnt in the next week

At the near end of every month a graded test, consisting of Multiple-Choice Questions, will be conducted to assess the progress and performance of the students.

The progress of the students is well monitored by the teacher allotted to the student. Assignments submitted by the students will be checked and graded but the teachers. To increase interactivity and interest in the Skill training gamified contents related to the trade are added. These gamified learning modules includes memory cards, hot spot images, drag and drop questions, interactive short videos and many more.

Ever Student has a dashboard which shows the details of the course progress, notifications, calendar events, grades, progress bar, message centre etc. Notifications are sent to students periodically reminding him of the progress and pending activities. Similarly, a Teacher dashboard helps him to review the student progress and grade the assignments in time by reminding him of all the activities.

DGT through this portal aims to reach every Skill trainee individually and augment the skills of the trainee

## NIMI Mock Test Mobile Application

NIMI has developed an Android based mobile App NIMI Mock Test for Students and Trainers to effortlessly assess themselves and the performance of the students periodically.

Already NIMI has floated the question banks in <http://nimilearningonline.in/qb.htm> and <https://bharatskills.gov.in/> portal as downloadable PDF for students to prepare themselves for the examinations. Also these questions are available in the Bharat Skills mobile app developed by NIMI for Question by Question View with answers.

## Following this NIMI Mock Test mobile app has been developed which has the following features.

- Students are mapped to their ITI during login
- Students can self assess by generating their own question paper
- Option to generate question paper with 25 or 50 questions.
- A very userfriendly interface similar to that which appears in the online examination has been developed
- A timer shows the available time for completing the exam
- The exam is timed at 30 minutes for 25 questions and 60 minutes for 50 questions
- The exam automatically ends once the time is over or can be submitted by the student if he has completed all the questions in advance.
- Students can see the answer sheet after completion of the examination
- Students can attempt the same exam 5 times and analyse their performance in all the attempts
- Trainers can generate a question paper and schedule an exam at a particular time
- An Exam ID is generated which can be shared to all students for conducting the exam.
- The exam report is generated after completion of the examination in the trainer login
- All the above features are made available without any cost for the benefit of the students and trainers



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## Update from CSTARI, Kolkatta

### 1. STCC Activites

• CSTARI team engages in scrutinizing the training courses proposed by STCC teams of various sectors. Deliberations are made under the guidance of DG through VC to arrive at training courses under CTS, DST, ATS, top-up courses for ITI pass-outs and CITS for implementation during the first phase.

Syllabi of trades under various schemes are available at the below-mentioned links –

CTS:  
<http://www.cstaricalcutta.gov.in/sylleng.aspx>

CITS:  
<http://www.cstaricalcutta.gov.in/syllCITS.aspx>

ATS:  
<http://www.cstaricalcutta.gov.in/ATS-1.aspx>

### 2. Training Activities

• CSTARI started online training activities from 15th July 2020 (World's Skill Day), following the schedule mentioned in the training calendar attached to CSTARI Website.

<http://www.cstaricalcutta.gov.in/tccn.aspx/>

• Two batches, covering 85 trainees including ITIs trainers/principals/DET

officials, are trained so far and training for two batches with 83 trainees is in progress. Online training for six more batches is planned in the coming quarter.

### 3. FLEXI MoU:

Flexi-MoU scheme is designed to cater to the needs of the industry, enabling to train candidates as per the skill requirements of the industries. The scheme provides the industry with the flexibility to create tailored skilling programmes with customized courses, having content and curriculum that meets the industry requirements and

get the same approved from DGT. All participating entities need to enter into an agreement or MoU with DGT, as an Industrial Training Partner (ITP). Courses developed by industry under the Flexi-MoU scheme have high employment potential. ITP and DGT jointly do the assessment.

The following industries have made MoU with DGT and CSTARI completed the NSQF alignment of various trades as mentioned below –

Name of Industry / Organisation	Trade
NMDC Nagarnar, Jagadalpur, Chattisgarh	1) Fitter –Integrated Steel Plant 2) Welder –Integrated Steel Plant 3) Crane Operator –Integrated Steel Plant 4) Office Management- Integrated Steel Plant 5) Electrician - Integrated Steel Plant 6) Light Vehicle Operator -Integrated Steel Plant
Maruti Suzuki, Noida, Gurugram, Haryana	1) Automotive Manufacturing Technician 2) Automotive Service & Repairing Technician 3) Automotive Body painter 4) Automotive Body Repairing Technician
Ordnance Factory Board	1.Fitter -OF 2.Grinder - OF 3.Machinist -OF 4.Turner -OF 5.Welder - OF



### 4. NCO(National Classification of Occupations)

NCO is a classification of occupations that describes and assigns codes to the various occupations in the country and aligns it with the ISCO (International Standard Classification of Occupations) of the International Labour Organization (ILO). Directorate General of



Employment (DGE) under the Ministry of Labour & Employment is the organization responsible for publishing NCO codes in India. The latest NCO published in 2015 aligns with ISCO 2008. Most of the occupations of NCO 2015 reference to the National Competency Framework

(NSQF), which is an outcome-based approach. Earlier versions of NCO were released in the years 1946, 1958, 1968 and 2004. The curriculum developed by DGT under the flagship research organization CSTARI, Kolkata, mostly aligns with job roles available in NCO codes.

# We are proud of

## Priyadarshini Parida

When Priyadarshini Parida of Gurdijhatia village in Cuttack district failed to score the marks she had expected in +2 Science, she knew joining an ITI would be the best for her as she had lost the tempo to appear in other competitive examinations. She had the ardour for technical education and the Government ITI Dhenkanal gave her the opportunity to enhance her inherent potential. Today, Priyadarshini's family is happy with her decision. In two years, her course in Electronics Mechanic was complete (2010) and she got a job immediately. She is now a Hardware Faculty at CTTC, Bhubaneswar. Skill training at the ITI ensured a secure future for her.

**SKILLED IN ODISHA**


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