

# SKILL TALKS

Directorate General of Training  
Ministry of Skill Development and Entrepreneurship



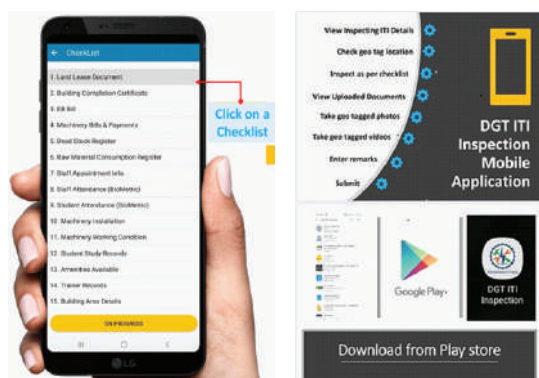
Skill, Re-skill और Upskill का ये मंत्र जानना, समझना,  
और इसका पालन करना, हम सभी के जीवन में बहुत महत्वपूर्ण है।



कौशल्य से कल्याण, कुशल भारत अभियान

## News & Events

### 1. Launch of DGT ITI Inspection Mobile Application:



Enduring efforts to bring transparency in the ITI Affiliation system, a mobile application has been launched to cover all aspects of the inspection procedure. This app features include Geo-tagging of the ITI location, online check-lists, upload live pictures and videos from the Inspection site, and provision to record all details of inspection reports available for ITIs.

## From Editor's Desk

We bring the third edition of Skill Talks with rejuvenated fervour.

The Hon'ble PM's Independence Day speech, highlighting the need to build a self-reliant India, where vocational training has a significant role to play, is very inspirational for DGT and MSDE. Celebration of Independence Day by RDSDEs and NSTIs, unfurling the flag on the campus premises has been covered. This month, a mobile application has been introduced for ITI inspection by DGT.

In this edition, we have focused on two key sectors of the Indian economy - The advanced technologies in the

Mining Sector are emphasized and the concept of better equipped Domestic Workers has been highlighted for this sector.

The uniqueness of Jharkhand ecosystem is worth looking forward to as a mineral rich state. Bihar State is equipping itself with young entrepreneurs and IT professionals, as an ideal location for power, cement and related industries. The enthralling tourism sector of Himachal Pradesh, good practices, among other things will bring insights worth cherishing.

Stay Safe & Stay Healthy !!

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## 2. Training, Counselling & Placement Cells at NSTIs:

Directorate General of Training (DGT) has recently mandated all its Central Field Institutes – the National Skill Training Institutes (NSTIs) to provide for counselling and placement services to its Trainees by setting/ upgrading Training Counseling and Placement Cell (TCPC Cell). The scope of the work for the Counselling and Placement Services in NSTIs is as follows:

- Building and nurturing industry-government relationships in close coordination with the officials of industry department and various industry clusters across the state. Additionally, a coordination mechanism will also be established with different state governments and international placement agencies for exploring job opportunities beyond the state boundaries.

- Providing Infrastructure and facilities for placement initiatives in the institute, leveraging their industry connects and increasing awareness about registering in portals like National Career Service (NCS) Portal, Skills Exchange (Labor Market

Information System Portal) etc.

- Setting up of a technology portal/ local database linking which will act as a platform to bridge the gap between various partners of the ecosystem such as Government and Private Employers, Jobseekers, career counsellors, certification providers (both government and private), Entrepreneurship development cell and other entrepreneurship support providers (e.g., incubators, seed funding providers, loan providers, etc.), verification agencies, etc.

- Facilitate entrepreneurship by operationalising tie-up with entrepreneurship-related agencies such as NIESBUD (National Institute for Entrepreneurship and Small Business Development) and providing facilities for encouraging self-employment such as access to loans from banks and NBFC, MUDRA financing, access to local entrepreneurship development cell, etc.

- Facilitate tools to analyze skill-wise demand of industry and supply of jobseekers so that candidates are

counselled appropriately.

- Regular interaction with industry for feedback on training content and delivery.

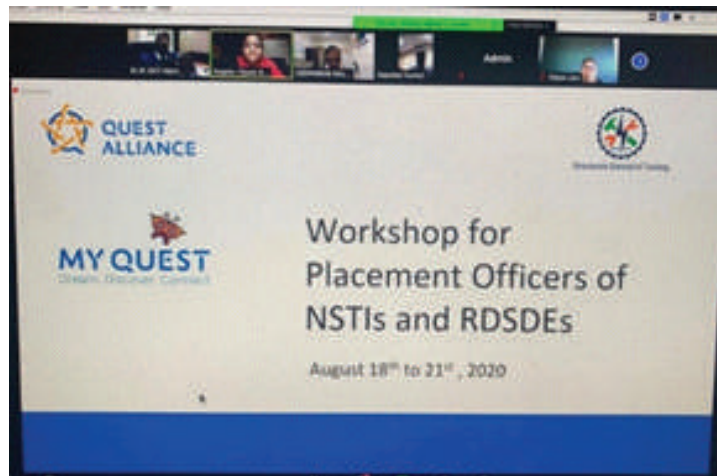
- Career Counselling to make candidates aware of multiple career choices and career paths.

- Arranging aptitude and psychometric tests to make candidates aware of their own unique skills and aptitude/ interest and map it to a suitable career.

- Information and knowledge sharing sessions between industry partners and candidates by creating platforms for candidates to access regular information on job vacancies and supporting them in accessing such opportunities.

- Outreach activities and arranging mobilisation camps/ job fairs to encourage candidates to undertake vocational skills training. Mega job fairs may be organised and passed out trainees from nearby ITIs can also participate.

## 3. Online training for Placement Officers of RDSDEs and NSTIs:



- + Learning to maintain a placement database.

- + Understanding the three pillars of TCPC

- (1) Information Collation and Dissemination

- (2) Training & Preparation

- (3) Organizing Placement Related events

At the end of the workshop, all placement officers were provided a format to create their Annual Placement Calendar. These Placement officers are expected to play a crucial role in planning timely industry engagements for the passed out trainees and ensure that the last-mile job readiness training is provided to the candidates.

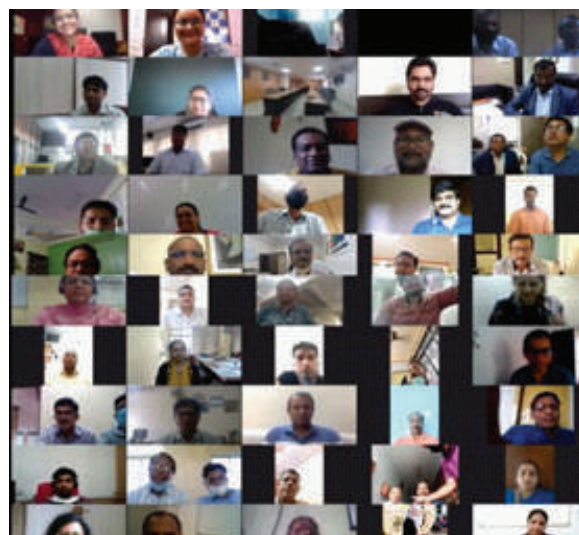
Quest Alliance's Placement team organized a virtual Workshop for Placement Officers nominated by NSTIs and RDSDEs from 18<sup>th</sup> to 21<sup>st</sup> August 2020. The focus of the workshop was to define the role of a placement officer, building a well-functioning Institute-level TCPC and scheduling a Placement Calendar for the students at their institutes.

The workshop was inaugurated by Shri Deepanker Mallick, DDG and Dr. M. Jayaprakasan, Joint Director- IT Cell from DGT. It was attended by 56 participants of the country.

Some of the key takeaways from the workshop were:

- + Job Search Strategies such as Market scan and Hackathons

- + Analyzing job skills, qualifications and job descriptions





#### 4. SkillsBuild Pitch night for ITI students

The SkillsBuild Online learning platform which was launched by IBM India in November 2019 was extended further in June 2020 with the launch of SkillsBuild Innovation Camp - a 10 week programme for learners who wanted to get a hands-on project to enhance their learning outputs and hence their employability, with support from IBM Mentors.

Under this programme, SkillsBuild Innovation Camp Pitch Night was conducted on 27th August 2020 with 10 participating teams (33 NSTI students pursuing the Advanced Diploma on IT, Networking and Cloud Computing and 2 UK students) to present their pitches after the completion of their 10-week camp. It was supported by 22 IBM coaches on Design Thinking and

Innovation to create solutions for real-world problems.

Each team was judged based on the scoresheet provided online during the event. The following 3 teams were the winners from the SkillsBuild Innovation Camp.

Team Position	Team Name	Student Name	Affiliated NSTI
1.	All Stars	Athira Nath S	NSTI Bangalore
		Nisha Rani	NSTI Panipat
		P Venkatesh	NSTI Bangalore
		Pulkit Bhardwaj	NSTI Bangalore
2.	Rule Keepers	Abhirami K	NSTI Bangalore
		Alfiya Fazil	NSTI Trivandrum
		Sai Kumar Erroju	NSTI Mumbai
		Katha Banerjee	NSTI Howrah
3.	Human - Tech	Shah Hussain	NSTI Chennai

#### 5. Independence Day Celebration at all NSTIs and RDSDEs

The 74th Independence Day was marked with unfurling of the Tricolor in the NSTIs and RDSDEs by the HoD and staff members, followed by the National Anthem, in complete adherence to the Covid-19 guidelines on social distancing.

The critical need of Skill development for economic growth and social development of Young India was also reiterated by the Prime Minister in his address to the nation on this occasion. He voiced a strong belief in the

'ATMANIRBHAR BHARAT' and how a large country like India is full of energy of the youth power needed to become a self-reliant India.

*"In the midst of Coronavirus pandemic, 130 crores Indians have pledged to become AatmaNirbhar and today the aim of AatmaNirbhar Bharat is etched in the hearts and minds of all Indians. We are seeing this dream of self-reliant India turned into an oath. A self-reliant India has become the mantra of 130 crore Indians. The mind-set of free India should be 'VOCAL FOR*

*LOCAL,' and we should appreciate our local products. An AatmaNirbhar Bharat does not mean only reducing dependence on imports, but strengthening India's capacity, creativity and skills."*

*"Also, through the Garib Kalyan Rojgar Abhiyan, launched for workers to generate employment in their own villages, we trust that our worker friends will be re-skilling and upskilling themselves. Having full faith in their efforts, relying on the skilled manpower, relying on rural and indigenous resources, we gave a clarion call VOCAL FOR LOCAL and RE-SKILL AND UP-SKILL, in an endeavor to empower our poor and our country's labour force."*



...Extract from Hon'ble Prime Minister, Shri Narendra Modi's address to the Nation on the 74th Independence Day - 15th August 2020

Independence Day celebration in NSTIs

## 6. New RDSDE, Madhya Pradesh Office starts functioning



DGT is pleased to announce the opening of the Regional Directorate of Skill Development and Entrepreneurship (RDSDE) Madhya Pradesh office with newly renovated premises on the Fourth Floor of Gas Relief and Rehabilitation Building, Govindpura Bhopal. The office space is provided free of cost by the Directorate of Skill Development, Madhya Pradesh. It has been refurbished and beautifully renovated

by Capital Power Administration, Bhopal - an organization under MP Govt. RDSDE Madhya Pradesh

RDSDE Madhya Pradesh has started functioning from this newly renovated premises w.e.f. 15th July 2020 under the able guidance of Sh. R.K. Pathak, DDG/HoD and other senior officials of DGT.

## Success Story of an ITI from Himachal Pradesh

**Institute Name:** Govt. Model Industrial Training Institute, Nalagarh, Himachal Pradesh Department Of Technical Education, Vocational And Industrial Training (DTEV&IT), Himachal Pradesh

**Year of Inception:** 1965

**Current Strength:** At present, the institute in providing modern training to 634 trainees of 29 units.

**Unique Offerings:** This Institute has made remarkable success in -

- development of infrastructure
- commencement of new trades and running extra units of the trades
- modernization of training techniques
- Registering several establishments under apprenticeship schemes

**Successful Placements:** This is the only ITI in the whole state that has registered 264 establishments under the apprenticeship scheme and 3,000+ apprentices seats have been created on the portal. Besides, the institute also offers a 100% pass rate of trainees for placement in different establishments.



MMV Trade Workshop



Govt. Model ITI Nalagarh

### Success Graph with Timelines:

- 1965 - This rural ITI had four trades, namely, Fitter, Electrician, Welder, and Carpenter, with an intake capacity of 64 trainees
- 1983 - The rural ITI was upgraded to Government ITI
- 1997 - The Mechanic Motor Vehicle trade was shifted to ITI Nalagarh from ITI Solan and increased intake of trainees from 64 to 90 in 5 trades
- 2002 - An IMC (Institute Management Committee) was constituted and started one unit each of Electrician, Fitter, Mechanic Motor Vehicle, and Welder. Now the intake capacity was increased from 90 trainees of 5 trades to 179 trainees in 9 units.
- 2007-2008: the institute upgraded to PPP mode and 5 new trades were introduced under the CTS Scheme, i.e., Electronic Mechanic, Draughtsman (Civil), Desktop

Publishing Operator, Driver cum Mechanic and Machinist. The additional units were also started under the PPP mode and the existing 179 trainees of 9 units increased to 545 trainees in 25 units.

- 2015: The institute was upgraded to Government Model ITI under the Centrally Sponsored Scheme on 'Upgradation of Govt. ITIs into Model ITIs' of GOI. The scheme envisages upgradation of only one Government ITI from each state. Now the training techniques are also modernized to be in sync with the emerging technologies in the



Sports activity in Govt. ITI



industrial sector.

### MoUs Signed:

MoUs signed with various industries for placements and apprenticeship:

- 1) M/s Indo Farm Equipments Pvt. Ltd.
- 2) M/s Luminous Power Technologies Ltd.
- 3) M/s Micro Turner Ltd.
- 4) M/s Him Techno Forge Ltd.

- 5) M/s Penguin Electronics Ltd. Various Successful Schemes being implemented by the ITIs includes
  - STRIVE (Skills Strengthening for Industrial Value Enhancement) – a World Bank assisted Programme for Results (P4R) based category that ensures outcome-based funding.
  - HPKVN (Himachal Pradesh Kaushal Vikas Nigam) - The Nigam envisages the broad goal of equipping the Himachal youth with the necessary modern and

employable skills to be job-ready in both domestic and international markets. DST (Dual System of Training) which is an amalgamation of theoretical training imparted through ITIs and practical training imparted through the industry. The DST trainees have an edge over regular ITI graduates in terms of employability opportunities.

### ITI Graduate Success Story

<b>Candidate Name and Contact Number</b>	Sh. Babu Ram +919736204913	
<b>Institute (ITI) Attended Govt</b>	Model Industrial Training Institute, Nalagarh, District- Solan, Himachal Pradesh-174101	
<b>Trade and Year of Passing</b>	Electronic Mechanic, 2011	
<b>Background about the problem faced</b>	Trainee belongs to a lower-middle-class family and one of his relative helped to get admission in ITI	
<b>Achievement</b>	Trainee chose to setup his own work/business instead of searching job. He started his business of Electronic items on small scale. Now he has a well-settled business of Electronic goods and dealership of Intex Electronics. At present, 5–6 persons are working under his supervision.	



Smart Classroom



Conference Hall

### National Skill Training Institute (NSTI) For Women, Shimla

**Location:** SIEMAT Building, Adjacent to DIET Campus, Shamlaghat, Shimla  
**Name of the Head of the Department:** Shri N. S. Garbyal, Regional Director

**Institute's website:** <http://nstiwschimla.dgt.gov.in/>

In February 2014, Govt. of India, under erstwhile Directorate General of Employment & Training (DGE&T), Ministry of Labour & Employment, had sanctioned 8 new National Skill Training Institutes (NSTIs) for Women for various states, including the state of Himachal Pradesh. NSTI(W)-Shimla started its functioning from 18th August

2015 from a temporary building (SIEMAT Building, Adjacent to DIET Campus, Shamlaghat, Shimla) provided by the State Govt. of Himachal Pradesh, situated in the mid ranges of Himalayan mountains, surrounded by thick forests of pine and picturesque views.



Draughtsman (Civil) - Drawing Hall

**COURSES OFFERED :** The institute offers courses in the following trades.

S.no	Name of the Courses	
	Craftsmen Training Scheme(CTS)	Craft Instructor Training Scheme (CITS)
1.	Fashion Design & Technology	Fashion Technology
2.	Desk-Top Publishing Operator	Draughtsman (Civil)
3.	Stenographer & Secretarial Assistant (English)	Desk Top Publishing Operator*
4.	Basic Cosmetology*	Cosmetology*
5.	Food & Beverages Services Assistant*	Architectural Assistantship*
6.	Architectural Draughtsman*	Training Methodology (Common for All Trades)

\* Planned Course

Fashion Design & Technology Workshop

Courses are also offered under short term training in Hospitality Sector, Fashion Design & Technology and Construction/IT Sector.

#### INDUSTRY CONNECT:

• Trainees are deputed in Industries/organisations of repute (Govt & Pvt) during their On-the-job

training at locations in Shimla, Punjab (Ludhiana, etc) and Baddi/ Nalagarh/ Bilaspur in Himachal Pradesh.

• All CTS courses are being offered under the Dual System of Training (DST) mode. Details of MoUs signed with the industry are tabulated below:



S.no	Trade	Industry
1.	Fashion Design & Technology	M/S Dogra Hosiery Bilaspur (H.P.)-
2.	Stenographer & Secretarial Assistant (English)	M/S National Institute of Electronics and Information Technology (NIELIT)-Shimla
3.	Desk Top Publishing Operator	M/S Ninu Media-Shimla

#### Status of Permanent Building:

Permanent campus of NSTI(W)-Shimla, comprising of State of Art Facilities, is coming up on a piece of land measuring approx. 2-75-79 Hectares, provided by the State Govt. of Himachal Pradesh near

Shimla (19 km away from Shimla) on NH 22 at Jhundla (Shimla). The land has been transferred and Land Lease Deed has been signed and registered favouring GOI. Construction of permanent buildings for

NSTI(W)-Shimla has started by CPWD Shimla after concurrence of building plans from Town & Country Planning Deptt, Govt. of Himachal Pradesh and Hon'ble National Green Tribunal (NGT). Formal Foundation Stone



Laying Ceremony by Hon'ble Chief Minister of Himachal Pradesh was held on 06th March 2019. In place of

principle approval of the estimated cost has been accorded for construction of permanent buildings for

NSTI(W)-Shimla at Jhundla (Shimla).

### RDSDE Himachal Pradesh:

Formally notified in December 2018, Regional Directorate of Skill Development and Entrepreneurship (RDSDE), Shimla, HP started functioning from the temporary accommodation of NSTI(W) Shamlaghat-Shimla from 2nd January 2019 and later on shifted to Thakur Vatika, Khalini-Shimla in May 2019.

RDSDE Shimla coordinates with various stakeholders in the state on skilling, viz. Industries, State Directorate of Technical Education, Vocational & Industrial Training, HP

Kaushal Vikas Nigam (HPKVN), NSDC-Shimla unit, etc. This Directorate also co-ordinates with organizations/departments under central/ state govt. for implementation and monitoring of various schemes of the Directorate General of Training (DGT). One of the focus areas is also to offer employable skills in NSTI(W) Shimla and state ITIs.

RDSDE Himachal Pradesh is responsible for the implementation, monitoring and coordination of various schemes of the DGT, implementation of

Apprentices Act in respect of Trade Apprentices/Technician (Vocational) Apprentices in the central government departments and undertakings, private establishments with business in 4 or more states and establishments dealing with natural resources. Under the National Apprenticeship Promotion Scheme (NAPS), this Directorate clears reimbursement claims of establishments. The establishments such as M/S NHPC Limited, Proctor & Gamble(P&G), Godrej, Neel Metal, etc. takes the benefits of NAPS.

### Department of Technical Education, Vocational and Industrial Training, Himachal Pradesh



Government ITI Baroh, HP

#### Craftsmen Training Scheme (CTS):

CTS was initiated by the erstwhile Directorate General of Employment and Training (DGE&T), Ministry of Labour and Employment, in 1950. Being a small and hilly State, Himachal Pradesh has a population of 70 Lakhs only. There are 272 ITIs, with a total capacity of 26,420. The number of seats per lakh of population, i.e., 377 seats per lakh, is much higher than the national average of 195 seats per one lakh people.

#### Apprenticeship Training Scheme:

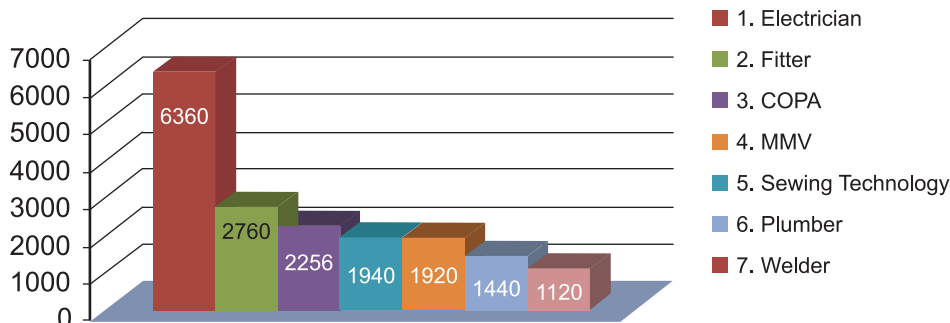
The no. of establishment registered in HP under ATS are 767 and no. of apprentices engaged are 1400. To boost Apprenticeship Training, SAMC (State Apprenticeship Monitoring Cell) is set up at State Directorate, Sunder Nagar under the STRIVE scheme. Result Area 4 of the STRIVE scheme, focuses on apprenticeship training which will be enhanced with the help of Industrial Clusters. Four Industrial Clusters have applied for participation under the scheme.

#### Dual System of Training (DST):

Out of 132 Govt ITIs, 8 Govt. ITIs are running courses under DST mode. DST includes On the Job training under an MOU between ITI and industry for significant duration during the course.

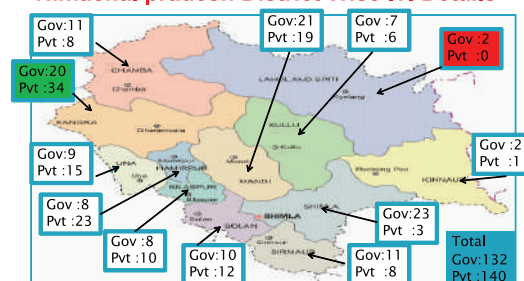
#### Women participation:

There is a reservation policy that reserves 30 % of seats for women and 9 Govt. ITIs are only for women ITIs. Carrying good employment potential in hydel power plants in Himachal Pradesh, Electrician is the most popular trade.



Popular trades under CTS in Govt ITIs in Himachal Pradesh

#### Himachal Pradesh District Wise ITI Details



## Domestic Workers : As Partners

### Introduction:-

Domestic workers constitute one of the largest segments of the informal work-force in India; this segment offers many services for individuals and families like cooking, laundry, shopping, household maintenance, care-givers to the children & elderly

people, nutritional awareness and house medical support to ailing and disabled people of society. With a population of 1.3 billion people, our country has a large section of middle-income range families, which is a potential stakeholder in creating jobs

for school dropout youth through the Domestic Worker Sector. This informal sector of the domestic workforce may be a magic box of employment for around 4.75 to 25 million domestic workforce in coming decades.

### (A) General Information of Sector:-

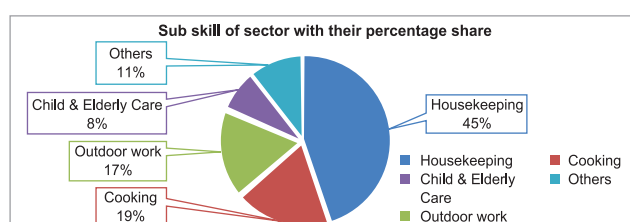
- Available Manpower: Approximately 20 Million
- Growth rate in terms of manpower of sector: 0.6 to 01 Million / Year
- Training requirement: 0.5 to 01 Million / Year
- Gender Ratio: 60 - 80% women to 20-40% men

### DOMESTIC WORKERS WORLD V/S INDIA



### (B) Subskills of the Sector with their percentage share:-

- Housekeeping – 45%
- Cooking – 19%
- Outdoor work – 17%
- Child and elderly care – 8%
- Miscellaneous – 11%



### (C) Existing courses relevant to Domestic Sector as offered by DGT ecosystem:

Following long term courses relevant for the sector are offered by the DGT ecosystem under Craftsmen Training Scheme (CTS) and Apprenticeship Training Scheme (ATS):

Sl. No	Scheme	Trade	Sector	NSQF Level
1.	CTS	Domestic Painter	Construction	Level - 4
2.	CTS	Hospital Housekeeping	Tourism and Hospitality	Level - 4
3.	CTS	Housekeeper	Tourism and Hospitality	Level - 4
4.	CTS	Old Age Care	Health and Care	Level - 4
5.	ATS	Housekeeper (Domestic)	Tourism and Hospitality	Level - 5
6.	ATS	Housekeeper (Hospital)	Tourism and Hospitality	Level - 5
7.	ATS	Housekeeper (Institution)	Tourism and Hospitality	Level - 5
8.	ATS	Gardener (Mali)	Agriculture and Allied Services	Level - 5

To revamp the training courses offered under CTS and ATS, the Directorate General of Training (DGT) has constituted the Sectoral Trade Course Committee (STCC) for each of 40 Industrial Sectors including the Domestic Worker Sector. Training, Assessment and Certification for the relevant courses under CTS would provide a trained certified work-force. This would empower the workforce to

choose among jobs, providing a conducive environment. Achieving such target would be a significant milestone in the skill ecosystem.

Once the job roles are defined and included in the formal skill training ecosystem, employers can also get the verification done through 3rd parties like placement agencies, DWs welfare board, trade unions, etc. The

intervention of placement agencies makes them responsible for the safeguard of both the employers and workers.

Apart from long term courses conducted by DGT under CTS & ATS flagship schemes, other short term courses run by the Domestic Worker Sector Skill Council (DWSSC) under NSDC is given below:

Sl. No	Short Term Course Title	Duration	NSQF LEVEL
1.	General Housekeeper	200 Hrs.	Level - 3
2.	Household Multipurpose Executive	340 Hrs.	Level - 4
3.	Home Cook	340 Hrs.	Level - 4
4.	Housekeeper cum Cook	400 Hrs.	Level - 3



Sl. No	Short Term Course Title	Duration	NSQF LEVEL
5.	Baby Caregiver	300 Hrs.	Level - 3
6.	Caregiver	340 Hrs.	Level - 3
7.	Mother & Child Elderly caretaker	200 Hrs.	Level - 3
8.	Supervisor(Day-care/PWD/ Old age home	400 Hrs.	Level - 5

#### (D) Market Analysis of Domestic Workers Sector:

The current market for Domestic Workers is entirely driven by demand and supply. There are a large number of jobs and many opportunities therein. It is estimated that the DWs sector accounts for upwards of 20 million with a 20% annual growth rate, but still, the market is not ready for skilled DWs due to the attached social stigma of assuming this sector to be reserved for household women. Even if DWs are hired, these are termed as servants/maids and their labour is treated as a form of servitude. Also, the history of the caste system and traditions further adds a break to the growth of this sector.

Nevertheless, the conditions are changing, as the government with its various initiatives and awareness programmes, successfully created a holistic environment for the Placement Agencies and various stakeholders. One important role of the placement agencies is to provide a decent job role to the DWs. With the support of Government agencies and coordination amongst stakeholders, the jobs falling in the unorganised sector would come under the organised sector.

#### (E) New courses that are identified by DGT in Domestic Worker Sector:

Presently Domestic Workers Sectoral Trade Course Committee (STCC) of DGT is considering to develop long term courses viz. "Aanganwari child care & nutrition support worker" in subsectors that would provide nutritional awareness and support to the society via various social development centres like Anganwari Kendra or AASHA Kendra. Other areas identified are Dairy Farm Worker, Corporate Guest House/Domestic House Manager, Roof-Top Gardener, etc.

The domestic Worker sector has a huge potential for employment. If channelized through a formal skilling ecosystem it can lead to better social and economic development of the society. Hence the vision should be focussed on creating a scenario in which the majority of our domestic workers can be skilled and hired based on the knowledge and certification through the skill training institutes to get better wages.

References: Sustainable livelihoods for domestic workers through skill development from DWSSC <https://www.nationalskillsnetwork.in/domestic-workers-dwssc/>  
Content by: Sh. H. C. Goyal (ISDS), JDT, RDSDE Kolkata as Convener STTC Domestic Worker

### Success Story - ITI Graduate

<b>Name</b>	Rajesh Kumar
<b>Current Status/Designation (Job/Own business)</b>	Job - Technician. Grade - III. RRC - Ranchi.
<b>Institute name and location (from where he/she trained)</b>	Government Industrial Training Institute. (Welfare). Ranchi.
<b>Year of completion of training</b>	2015
<b>Trade studies</b>	Electrician
<b>Approximate annual salary/turnover</b>	Rs. 300000.00/Annum.
<b>Testimonial</b>	I have learned so much in my training days - amazing days. My instructor, my classmates, we all performed as a teamwork.



## Mining Sector - Required Skills & Future Technologies

Once Kautilya told mines are the treasury of the state. Mineral production contributes immensely to the growth of the GDP of the country. Producing mineral economically has remained a challenge always. In this context skilled human capital plays a large role.

India is well endowed with many metallic and non-metallic mineral resources. Indian Mining Industry produces nearly 89 minerals under different groups such as fuel minerals, metallic minerals, atomic minerals and minor minerals. Given the availability of the mineral wealth in India and picking up of growth of the manufacturing and infrastructure sector under the 'Make In India' programme, the expected share of mining and quarrying sector in the GDP would increase from current 2 % to 5% over the next 20 years.

A large proportion of mining in India is concentrated in the states with low per capita income than the national average - Jharkhand, Rajasthan, Odisha, Chhattisgarh and Madhya Pradesh constitute about 54% of the mining sector GDP and 37% sectoral employment.

India is also a leading player in respect of many non-fuel minerals including, iron ore, bauxite, dolomite, limestone and mica. The Mining Sector (non-fuel) currently accounts for approx 0.5% of the national GDP

### Exports - Natural Stones Reserves In India

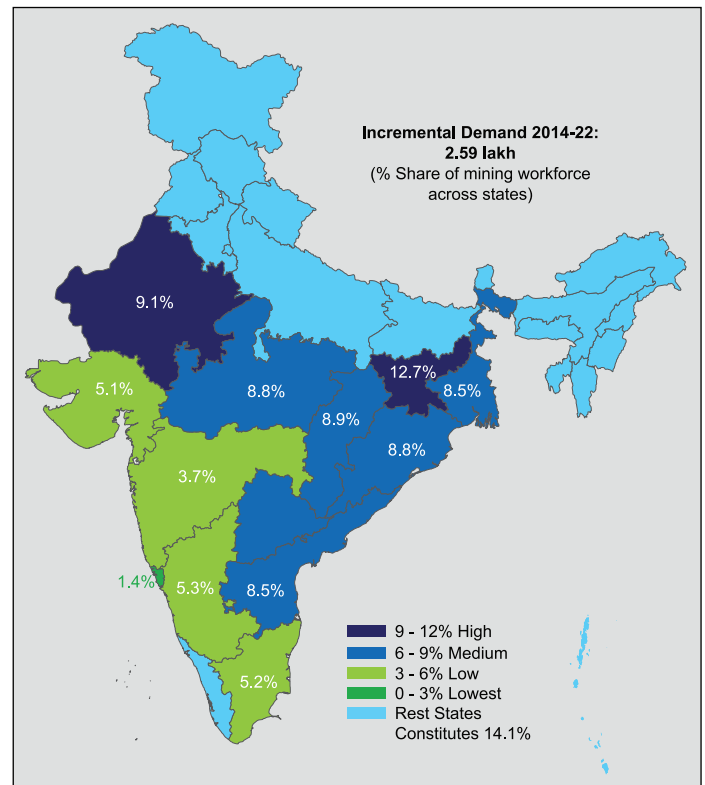
India has the second-largest deposit of Natural Stones in the world with 15% of the world's Natural Granite Stone reserves. India is one of the top 5 Granite producing countries along with China, Brazil and others. India has more than 11% export share in total world's stone trade.

### Skill Development in the Mining Sector

Scientific, sustainable and transparent mining practices require well-trained manpower. Skill development not only enhances productivity and safety at the workplace but more importantly, it prepares the workforce to adapt to the new state-of-the-art technologies. Currently, this sector employs around 0.2 million people, which is estimated to grow to 0.3 million in the next 10 years.

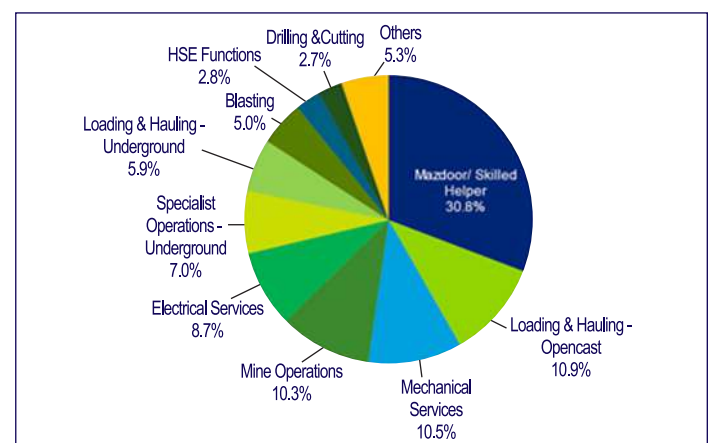
The mining sector has a significant proportion of employment, about 89%, in the young age group (25-44 years) as compared to overall employment across all sectors (57%) in the similar age group. The average daily employment of women in mines in 2011-12 accounted for 4.4% of the total mining workforce, which is considerably less. Presently, the mining industry is experiencing a critical skill shortage, leading to high attrition rates and high wages in professional traits.

The stone fabrication industry is growing at an ever-increasing rate, as natural stone is more in demand than ever. And this growth has spurred manufacturers of stone working machinery - as well as suppliers of diamond tools and other accessories - to come up with new



Geographical Distribution of Incremental Plan (2014-20)  
Source : Skill Plan for Mining Sector (2016-22), Ministry of Mines, GOI

Indian share is more than 27% of the total stones produced throughout the world. The export which was at Rs. 50 crores in 1987 has increased to Rs. 14,000 crores in 2016-17. The total resources of all grades of marble have been estimated at 1,945 million tonnes.



Note:

\*1. This includes job roles such as Senior Mining Engineer, Senior Geotechnical Engineer, Mining Engineer, Geotechnical Engineer, Mining Engineer, Material Engineer, Reclamation Supervisor - Plant operations Mining Supervisor and Mining Mate.

2. The other includes occupations categories - Exploration Drilling, Geological Investigation, Mine Surveying, Resource Management, Ore Processing, Instrumentation & Control System, Specialized Technicians including Sampler (QA/QC) and Geophysical Exploration.

3. It excludes the workers engaged in dimensional stone/minor minerals.

Source : Deloitte Sample Survey, 2015.



introductions as well as improvements on existing products. Following are some of the processes where Programmable Logic Controller (PLC) Machines are used:

- **Quarrying:** Wire Saw, Chain Saw, besides HEMM for dislodging the blocks, Derrick Crain's, etc.
- **Processing:** Gantry Crain's, Sawing/cutting (Block cutters, Gang Saws, Multi-wire machines), Grinding Machines, Edge Cutting Machines, Polishing Machines, Profiling and carving Machines, etc.

The above machines, nowadays, are using state of the art technology and are designed for optimum efficiency with high standards of safety.

The vocational training institutes in mining-related courses in India comprises of Industrial Training Institutes (ITIs) (Government & Private), NSDC Training Partners and Vocational Training Partners (VTPs). These institutes offer auxiliary trades/ courses in the mining sector which are non-exclusive to the sector and the graduates of these institutes are absorbed by other related sectors as well, such as related to civil engineering, electrical engineering, etc. As of 30 September 2020, India has a total of 14788 ITIs affiliated to NCVT, of which 3062 are Government ITIs and 11726 are private ITIs. These ITIs offer courses in about 17 trades that meet multiple requirements of the Mining Sector. These 17 trades are Data Entry Operator, Driver Cum mechanic, Electrician, Fireman, Fitter, HR Executive, Information and Communication Technology, Machinist, Mechanic – Mechatronics, Mechanic – Motor Vehicle, Mechanic – Tractor, Operator Advanced Machine Tools, Pump Operator, Safety Operator, Surveyor and Welder – DA, Welder – GMAW & GTAW

### Courses Under ATS designed for Mining Sector

Sl. No	Trade	Apprentices enrolled*	Major establishments engaging Apprentices
1.	Mate (Mines) NSQF Level 5	214	MOIL Ltd., MP and Maharashtra
2.	Mechanic Mining Machinery NSQF Level 5	44	Skill Development Centre, Nagpur (WCL), Workers Training Institute, Wardha (WCL)
3.	Short Firer/Blaster (Mines) NSQF level 5	457	Hindustan Copper Limited, Rajasthan, MOIL Ltd., MP and Maharashtra, Skill Development Centre, Nagpur (WCL), Supervisory Training Institute, Chhindwara (WCL), Workers Training Institute, Wardha (WCL)
4.	Sirdar (Colliery) NSQF Level 5	1600	Eastern Coalfields Limited, Skill Development Centre, Nagpur (WCL), Supervisory Training Institute, Chhindwara (WCL), Workers Training Institute, Wardha (WCL)

\* Source. [www.apprenticeship.gov.in](http://www.apprenticeship.gov.in)

Short Term Courses (STC): Skill Council for Mining Sector (SCMS) is promoted by the Federation of Indian Mineral Industries (FIMI) and supported by the Ministry of Mines. The SCMS offers 52 courses for the mining industry

### Future Technologies For Mining Sector

India is preparing to get closer to the vision of Industry 4.0 and smart automated mines are not far away. A lot of technological advancement has taken place internationally in mining technology as explained in examples such as

In addition to the above courses, there are courses designed for the Mining Sector. The courses offered in ITIs under Craftsmen Training Scheme (CTS) and On-the-Job training, under apprenticeship training scheme (ATS) are indicated below:

### Courses Under CTS designed for Mining Sector

- Mech. Mining Machinery – NSQF Level 5
- Stone Processing Machine Operator - NSQF Level 4
- Stone Mining Machine Operator - NSQF Level 4

Following Government ITIs in Odisha and Rajasthan have introduced CTS Courses designed for Mining Sector, as detailed below:

- Govt. ITI Anandpur, Odisha - Mechanic Mining Machinery
- Govt. ITI Talcher, Odisha - Mechanic Mining Machinery
- Govt. ITI Rajsanand, Rajasthan (Stone Mining Machine operator)

These trades are newly introduced at these ITIs from 2019 under NCVT. Before that, it was run under SCVT in Odisha. ITI Anandpur has a Dual System of Training (DST) with Orissa Mining Corporation.

in PPP mode, with most of the courses at NSQF level 4. Courses such as 'Mining Mate' and 'Reclamation Supervisor' are aligned to NSQF level 5.

Automated Hauling: Caterpillar<sup>1</sup> (CAT) has developed and deployed autonomous dump trucks of payload capacity 180 T and 360 T, Machine guidance Management - the system helps in improving the productivity of mining machinery

*The majority of surface mining equipment in the world comes from one manufacturer: Caterpillar*

from drilling to hauling, CAT-Detect - a tool that gives the operators a better view of what's happening around their equipment. It combines cameras and radar into a true object detection system which automatically alerts

operators of hazards, and CAT Minestar Health - It collects and transmits equipment data, monitors critical machine parameters, provides real-time alerts, identifies operational trends & patterns and predict failures.

**Fully Automated Underground Syama mine in Mali, Africa** is a fully automated underground gold mine built by Australian gold miners. All the unit operations of mining from the bolting or the clearing of the drill point, to the extraction of the ore and the loading of the ore into the haul trucks to the operational haul trucks, all of these activities are performed by automated machinery. The trucks, robotic loaders and drills have all been designed by Sandvik.



Similar technological advancement has also taken place in other areas of mining like mineral exploration, mineral beneficiation, mine surveying, etc. The approval of the government for 100 % FDI in the coal mining sector will definitely bring the global companies with recent technology to India in the years to come and the mining sector will look very different than what it does today. Thus, there will be a shift in the skill requirement of the miners at all levels. New jobs will demand the miners having knowledge of AI, IoT, smart sensors, M2M2 connectivity, automation, digitization, robotics, etc. Considering the above shift in skill requirements in future mining technology, the introduction of these technologies in the vocational courses being offered by institutions would improve the employability of graduates of these institutions.

There is a GOI decision to allocate 41 coal blocks in Pvt. Sector ranging from 0.5 to 40 million Tonne / annual capacity. Hence, there will be a fresh requirement of a workforce of about 28000 per annum as projected in the Deloitte Sample Survey 2015. The highest share of incremental demand is expected in NSQF level 4 (i.e., Diploma / ITI equivalent certificate holder).

(By: Sh. M. C. Kardam (ISDS), JDT,DGT- STCC Convener – Mining Sector)

#### References :

1. Skill Plan for Mining Sector (2016-22) by Ministry of Mines
2. Human Resource & Skill Requirement Study for Indian Mining Sector by Deloitte –SCMS May 2016
3. Options for Skill Development in Mining Sector

### Success Story - ITI Graduate

<b>Name</b>	Sanjay Kumar Pramanik
<b>Current Status/Designation (Job/Own business)</b>	Job-Technician. Grade-III. RPB-Secunderabad
<b>Institute name and location (from where he/she trained)</b>	Government Industrial Training Institute. (Welfare). Ranchi.
<b>Year of completion of training</b>	2014
<b>Trade studies</b>	Fitter
<b>Approximate annual salary/turnover</b>	Rs. 320000 per annum
<b>Testimonial</b>	Training means hardworking. And hard-work is the key of success.





## A brief on Skill Ecosystem in Bihar State

### RDSDE Bihar: Brief overview

Regional Directorate of Skill Development & Entrepreneurship, Bihar (RDSDE-Bihar) is an attached office of Directorate General of Training (DGT), Ministry of Skill Development & Entrepreneurship amongst 22 RDSDEs pan-India. Set up vide the Gazette notification dated 14th December 2018, RDSDE-Bihar endures effective integrated development and monitoring of all the programmes at the state level. It is the nodal implementation and co-ordination body for skill training and apprenticeship training.

### ITI ecosystem of Bihar - Directorate of Employment & Training, Govt. of Bihar

- There are 1228 ITIs affiliated with the National Council for Vocational Education and Training (NCVET), out of which 46 are government ITIs, and 1182 are private ITIs.
- Popular trades among trainees are Electrician, Fitter and Mechanic - Diesel, to name a few. Apart from these, DGT has also introduced new-age courses under CTS viz. IoT Smart City, IoT Smart Agriculture and Smart Health Care, among others.



### Centrally Sponsored Schemes being implemented in Bihar

1. Establishment of ITIs in 47 districts under Left Wing Extremism (LWE): A total of 9 Districts of Bihar State are covered under this scheme viz, Jamui, Gaya, Aurangabad, Rohtas, Jehanabad, Arwal, Muzzafarpur, Banka, Nawada. 5 Government ITIs and 11 SDCs have been constructed, 5 ITIs are operational in which training is being imparted in 4 trades and 356 trainees have been trained.

2. Upgradation of Existing Govt. ITI into Model ITI: Government ITI Marhowrah is covered under the scheme.

3. Upgradation of 1396 Govt. ITI

through PPP: 13 Government ITIs of Bihar were covered under this scheme. 4. Skills Strengthening for Industrial Value Enhanced (STRIVE): 3 Government ITIs at Gaya, Dehri On Sone and Digha Ghat are covered under this scheme in Bihar.

5. National Apprenticeship Promotion Scheme (NAPS): Apprenticeship training is one of the most efficient ways to develop skilled manpower for the industry, by using training facilities available in the establishments. There are 14 central government's, 13 CPSEs, 22 private sector's and 1 state government's establishments

registered on the apprenticeship portal under RDSDE-Bihar jurisdiction. Nearly 1800 apprentices have completed apprenticeship training since August 2016 as per apprenticeship portal under RDSDE-Bihar jurisdiction.



### COVID response from Bihar's ITIs

Many ITIs contributed to the PM-CARES fund. ITIs distributed food

packets of rice, wheat flour, Potato, Mask, Soap, etc. to the needy. Some

ITIs came forward to make use of their premises as Isolation Centre.

### PM-YUVA

PM-YUVA is a flagship initiative under the Ministry of Skill Development & Entrepreneurship, Government of India, to educate and create young entrepreneurs. This programme is being implemented in 12 states of India as of now.

The pilot phase of PM-YUVA 2.0 is being implemented among a few institutes of Bihar, which are ITI, Polytechnics, Jan Shikshan Sansthan(JSS) and NSDC training partners. In Bihar, this programme will be run by Directorate of Employment &

Training, Govt. of Bihar for ITI and State board of technical Education, DST, Govt of Bihar for polytechnics and NSTI(W)-Patna.

## National Skill Training Institute for Women, Patna, Bihar

National Skill Training Institute for Women at Patna was established in August 2015. Earlier, it was known as Regional Vocational Training Institute, Patna. It is situated at State Govt. Women ITI campus, Digha Ghat, Patna. NSTI (W), Patna is currently providing training programmes for women under Craftsmen Training Scheme (CTS) and Crafts Instructor Training Scheme (CITS).

Under the Craftsmen Training Scheme (CTS), the Institute is offering training in trades of Electronics Mechanic, Fashion Design & Technology and New Age courses for Internet of Things (Smart City) & Internet of Things (Smart Health Care). The new-age courses have been introduced for trainees to learn, understand and familiarize themselves with the latest trends of technology.

The Institute is providing training under the Craft Instructor Training Program in the trade of Electronics Mechanic.

Institute has also started IBM Advance Diploma (Vocational), a 2-year course in IT, Networking & Cloud Computing during the 2019 academic session where the training is provided by M/s IBM trained faculties.

### Activities at NSTI(W) Patna:

- Quest Alliance conducts Employability Skills for trainees of CTS. During the COVID-19 pandemic, online learning session are being held.
- IBM offered 2 days training program on Artificial Intelligence. 334 instructors of Govt. and Pvt. ITIs of Bihar State have got benefited under this program for future technology.



Quest Alliance Employability Skill Programme:

- PM YUVA Entrepreneurship programme is organized for trainees at the Institute.
- World Youth Skill Competition was organized at the Institute for the trade of Electronics at Patna district level in January 2020.



2 Days IBM Instructor Training Program on AI

- Capacity building programme is conducted by Education officer from Center Board for Workers Education (CBWE), Ministry of Labor and Employment, Bihar for all trainees.
- Demonstration on Variable Frequency Drive (VFD) of motor for speed control along with the operation of different types of sensors was provided by Experts from industry in the field of Instrumentation and Control from Patna.
- An apprenticeship fair was organized at the Institute by RDSDE-Bihar. Industries and trainees were invited.

- The women trainees regularly participate in extra curriculum activities with full enthusiasm.
- Faculties of the Institute continued the teaching during the lockdown through online classes, sharing study material using different networking platforms (WhatsApp, YouTube, Zoom, NIMI, Bharat Portal, etc.) for CTS trades – EM and IoT (Smart City) and CITS trade – EM, covering theoretical topics.
- The Institute is sensitive about the safety and security of women trainees and provides essential facilities at the highest priority.



Demonstration by expert

"It is possible to fly without motors, but not without knowledge and skill."

- Wilbur Wright





## Skill Ecosystem - State of Jharkhand

Jharkhand is home to 40% of India's mineral wealth. It contributes over 20% to India's total steel production. Due to the high availability of metals and minerals such as steel and coal, the state is an ideal destination for setting up auto-component industries, power projects, cement plants, among others. Jharkhand's rich mineral resources include coal (27.3 percent of India's reserves), iron ore (26 percent of India's reserves), copper ore (18.5 percent of India's reserves), uranium, mica, bauxite, granite, limestone, silver, graphite, magnetite and dolomite. Jharkhand is the only state in

India to produce coking coal, uranium, and pyrite. With 25.7 percent of the total iron ore (hematite) reserves, Jharkhand ranks second among the states.

Jharkhand is the largest producer of Tasar silk in India, which is exported to the US, Europe and East Asian Countries. Jharkhand Silk Textile and Handicraft Development Corporation (JHARCRAFT) is a government of Jharkhand undertaking to create sustainable livelihood opportunities for the rural people. Jharkhand is home to 40% of India's mineral wealth. It contributes over 20%

to India's total steel production. Due to the high availability of metals and minerals such as steel and coal, the state is an ideal destination for setting up auto-component industries, power projects, cement plants, among others.



Oldest steel plant of India: Tata Steel, Jamshedpur

### RDSDE Jharkhand

The GoI has set up 22 Regional Directorate of Skill Development & Entrepreneurship (RDSDEs) across the country covering most of the States including RDSDE-Jharkhand at Ranchi vide Gazette notifications dated 8.01.2019 and 18.11.2019. Apart from functions entrusted to RDSDE Jharkhand, it supervises apprentice activities, Skill Development in 47 districts affected by LWE, promotion of apprentices under Strive Scheme, National Apprentice Promotion scheme and also supervises NSTI Jamshedpur. NSTI(W)-Ranchi is proposed to be set

up in Ranchi district. Major establishments under RDSDE Jharkhand include TATA Steel, SAIL-Bokaro Steel Plant, Kiriburu Iron Ore Mines, Railway- Chakradharpur Division, Uranium Corporation of India; and under the state government, some of the major establishments are: Tata Motors, TIMKEN, Hindalco, ACC Ltd. to name a few.

RD, RDSDE Jharkhand is the convener for Sectoral Trade Course Committee (STCC) for the Iron and Steel Sector. The committee is represented by State Officials

and members from major industries like TATA Steel, SAIL and Bokaro Steel Plant.



Bokaro Steel Plant Ranchi The first Swadeshi Steel Plant

### Central Field Institute: NATIONAL SKILL TRAINING INSTITUTE, Jamshedpur

The National Skill Training Institute, Jamshedpur (Formerly known as Foremen Training Institute - FTI) was set up in the year 1982 by the Government of India, Ministry of Skill Development & Entrepreneurship, Directorate General Training to cater to multifarious requirements of industrial training activities and more specifically, it was targeted to meet the requirement of highly skilled technicians with supervisory & managerial skill.

NSTI, Jamshedpur is committed to consistently maintain the supply of skilled manpower as well as Supervisory development, to sustain the industrial growth in this part of the country.

Online Classes: NSTI Jamshedpur conducted online classes during the lockdown period due to the COVID-19 pandemic and ensured that the syllabus is completed on time.



NSTI Jamshedpur

### Land Acquisition for construction of building for NSTI Jamshedpur

NSTI Jamshedpur is operating from the Government Polytechnic campus since 1982. Now, 15 acres of land is acquired at Gamharia, under the diversion provision of the Forest Conservation Act. DGT is setting up a new campus at Gamharia, which is the center of the industrial area. A new site compound wall has been constructed to cover the

entire 15 acres of land. 10 popular trades like Fitter, Turner, Machinist, Electrician, Automobile, Draughtsman(Civil), COPA, Solar Technician, IOT (Smart Agricultural) and IOT (Smart City) are planned for 400 trainees initially. This new campus has two main gates, one at the Adityapur - Kandra highway and the other on the industry side. The building

plan and cost of the building are being worked out with CPWD, Jamshedpur.



Main Gate at new campus for NSTI Jamshedpur

## Department of Employment and Training(DET), Government of Jharkhand:



### Schemes at a glance in Jharkhand

#### A. Apprenticeship Training Scheme

Total Establishments in Jharkhand: 272	• State Public Sector Undertaking: 1
Total onboarded Establishments: 117	Out of total registered 272 establishments:
• Central Government: 15	• Under RDSDE Jharkhand: 70
• Central Public Sector Undertaking(PSU): 43	• Under State DET: 202
• Private sector: 57	• Total Apprentices engaged with RDSDE Jharkhand in FY 2019-2020: 4000
• State Government: 1	

#### B. Craftsmen Training Scheme

##### Government ITIs

- Total Number of Government ITIs = 59
- Total Number of trades in Government ITIs = 41
- Intake capacity (as in 2019): 12452
- Major trades in Govt ITI include: Draughtsman (Civil, Mechanical), Electrician, Fitter, Welder, Machinist, Mechanic Diesel, Foundry-man, Plumber, Mason, Turner, Mechanic (Refrigeration and Air conditioning)

##### Private ITIs

- Total Number of Private ITI = 268
- Total Number of trades in Private ITI = 31
- Intake capacity (as in 2019): 43072
- Major trades in Private ITI: Carpenter, COPA, Draughtsman (Civil), Draughtsman Mechanical, Machinist, Mason, Plumber, Electrician, Turner, Welder, Electronics Mechanic, Mechanic (Refrigeration and Air conditioning)

#### C. Centrally Sponsored Schemes

##### (i) Skill Development In 47 Districts Affected By Left Wing Extremism(LWE)

This Scheme was introduced to bring misguided youth back into the mainstream. This scheme is premised upon	• Skill training of youth
• Establishment of ITI's and Skill Development Centers (SDCs)	• Skill gap survey.
	• One time grant to the Institute Management Committee (IMC)

States	No. of Dist.	Districts covered for 1 ITI and 2 SDCs per district		Districts covered for 1 ITI per district	
		Name	Nos.	Name	Nos.
Jharkhand	16	Chatra, West Singhbhum, Palamau, Garhwa, East Singhbhum, Bokaro, Lohardaga, Gumla, Latehar, Hazaribagh	10	Girdih, Khunti, Ranchi, Dumka, Ramgarh and Simdega	6

##### (ii) Upgradation of Existing Government ITI into Model ITI

Under this Scheme, an existing ITI in a State is being upgraded as Model ITI which will be evolved as an institution showcasing the best practices, efficient and

high-quality training delivery and sustainable and effective industry relationship.

States	Name of Model ITI	Industry Partner
Jharkhand	Government ITI (General), Ranchi	Usha Martin Industries Limited



**(iii) Upgradation of 1396 Existing Government ITI through PPP**

Under the scheme, 1227 Government ITIs have been covered and an Industry Partner (IP) is associated with every ITI covered under the scheme. Institute Management

Committee (IMC), registered as a society, has been constituted in each ITI and is headed by the Industry Partner.

Sl	States	Name of ITI supported	Industry Partner
1	Jharkhand	Government ITI, Chaibasa	Associated Cement Company Limited
2	Jharkhand	Government ITI, Daltonganj	Grasim Limited-Chemical Division
3	Jharkhand	Government ITI, Kharsawan	Tata Steel
4	Jharkhand	Government ITI, Dumka	Adani Limited
5	Jharkhand	Government ITI, Jamshedpur	Tata Motors
6	Jharkhand	Government ITI (W), Ranchi	Usha Martin Industries Limited
7	Jharkhand	Government ITI (W), Jamshedpur	Tata Motors
8	Jharkhand	Government ITI, Giridih	Mcnally Sayaji Engineering

**Government Industrial Training Institute (Welfare), Ranchi, Jharkhand**

Name of institute	Government Industrial Training Institute (Welfare), Ranchi
Year of inception	1963
Number of students / strength	214 (for session 2019-20)
Courses/trades offered	9 Nos.
Most preferred trades	Electrician, Fitter, Turner, Mechanic Motor Vehicle, Welder, Mechanic Diesel
Amenities	Well-furnished classrooms. Computer lab. Hostel for girls. Playground Modern Class room etc.
Accolades	Model ITI of the state.
Unique Offerings	Spoken English class for enhancing communication skill.
Best Practices	Boosting moral with uplifting skill.
Number of students passed out, till date	Around 15000 nos. since 1961.
Successful placements	20 nos. in last year.
Partnerships	Usha Martin, HECLtd and others
Any additional details	N.C.C (One step ahead to serve the nation.)



Motivational Sessions



NCC drills (Girls' team)



Enhancing Communication skills through special Trainings and Certification

**Success Story of Trainees**

Passed-out trainees of Electrician, Fitter and Welder trades of the Govt. ITI (Welfare), Ranchi are being recruited consistently by the Railway Recruitment Board (RRB) for different locations over the last few years. The trained boys have got permanent employment as Technicians and are drawing an annual salary of more than Rs. 3 Lakh. The practical skills learnt during the training have helped them achieve this goal.



# NATIONAL INSTRUCTIONAL MEDIA INSTITUTE (NIMI)

Ministry of Skill Development  
and Entrepreneurship

Government of India

## ***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

## ***Books published***

1. Physiotherapy Technician Trade Practical
2. Physiotherapy Technician Trade Theory
3. Health and safety Environment Trade Practical
4. Health and safety Environment Trade Theory
5. Draughtsman Mechanic 2nd year Volume I of II Trade Theory
6. Refrigeration and Air conditioning technician 2nd year Volume 1 Practical
7. Mechanic Auto Electrical and Electronics Trade Theory
8. Fashion Design and Technology Volume I of II Trade Theory
9. Draughtsman Mechanic 2nd year Volume I of II Trade Practical
10. Digital Photographer Trade Theory
11. Digital Photographer Trade Practical
12. Draughtsman Mechanical 2nd year Volume II of II Trade Practical
13. Mechanic Tractor Volume I of II Trade Practical
14. Mechanic Tractor Volume I of II TradeTheory



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### Update from CSTARI, Kolkata

The National Skills Qualification Framework (NSQF) was implemented as per NSQF Gazette Notification issued by Govt. of India, for unifying all qualifications based on knowledge, core skills, competencies, etc. and responsibility for achieving performance competence (deliverables) at work place. Curricula under different schemes were to be NSQF aligned within a given time frame and trainers in the country were to be trained as per requirement for successful implementation of the framework.

Consequently, a three-tier approach led by DGT-STRIVE team involving 11 nodal institutions like, CSTARI, NSTIs, NIMI, States, ITOTs and Model ITIs was envisaged to train the master trainers and other stake holders from Govt. and Pvt. ITIs across the country.

Now, CSTARI Kolkata being one of the nodal agencies has completed training of Master Trainers –MT (Level 1) of all nodal institutions like DGT, NSTIs/RDSDE, NIMI, States Directorates, ITOTs and Model ITIs and also Training of Trainers-ToT (Level 2) of the states Bihar, Tripura and UP allotted to CSTARI as per the STRIVE concept note. The NSQF training details of CSTARI, Kolkata are tabulated below:-



#### NSQF Training details (L1 & L2) achieved by CSTARI under STRIVE

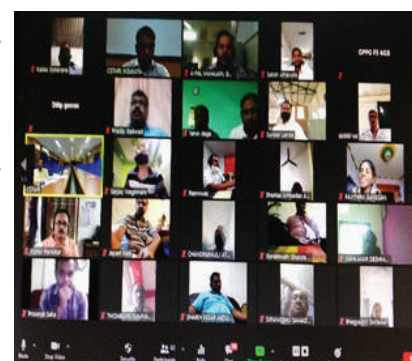
S.No	Organization	Level	States	Target Assigned	Achieved	Shortfall
1	CSTARI	L1	All States	(150+50) Master trainers from NSTI/Model ITI/ITOT/State Directorates	218	NIL
2	CSTARI	L2	Bihar	148	200	NIL
			Tripura			
			UP (1/3)			

#### NSQF Training details (Two days course) by CSTARI

S.No	Organization	States	Traning Mode	Number of Participants Trained	Remark
1	CSTARI	All States	Conventional	2469	On campus/ Off Campus Training
2	CSTARI	All States	Webinar	361*	Online

**\* Conducted 3 batches of on-line NSQF training courses each of 4 days for 129 ITI instructors during month of August 2020**

In addition to this, CSTARI has also developed the initial training materials, PPTs and NSQF implementation manuals etc.



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Mr. N. Nath	Deputy Director
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