



ITI Upgradation and Industry Alignment Under PM-SETU

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The Pradhan Mantri Skilling and Employability transformation through Upgraded ITIs (PM-SETU) scheme envisages to enhance the overall quality and relevance of vocational training with upgraded labs, machines, and industry-aligned curriculum in the country.

The key objectives of the scheme are as under:

- i. To improve the quality of training delivery in Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs);
- ii. To modernize infrastructure and equipment as per industry standards;
- iii. To introduce industry-aligned long-term and short-term courses, especially in new and emerging sectors;
- iv. To strengthen industry linkage for demand-driven skilling and better employment outcomes; and
- v. To enhance the capacity of NSTIs for training of trainers.

The scheme comprises of two components:

- i. Component I – Upgradation of 1,000 Government ITIs (200 Hub ITIs and 800 Spoke ITIs) in a Hub and Spoke model wherein upgradation includes smart classrooms, modern labs, digital content, and new courses aligned to industry needs.
- ii. Component II – Capacity Augmentation of five NSTIs located in Bhubaneswar, Chennai, Hyderabad, Kanpur, and Ludhiana, including setting-up sector-specific National Centres of Excellence for skilling, with focus on advanced training of trainers with global partnership.

The selection criteria for Government ITIs to be included under the Scheme is decided by the States/ Union Territories (UTs) in consultation with industry, ensuring alignment with emerging skill needs and local industrial potential. States/ UTs through their respective Steering Committees have the flexibility to fix appropriate eligibility criteria, such as turnover and number of employees, at the Expression of Interest (EOI) or Request for Proposal (RFP) stage, based on their local context and industrial landscape.

States/ UTs accordingly invite industry participation, and industry, in response, submits a Strategic Investment Plan (SIP) for the approval of the State Steering Committee and the National Steering Committee (NSC). Upon approval, the selected industry is required to form a Special Purpose Vehicle (SPV). The SIPs are approved on a first-come-first-serve basis, subject to completion of the prescribed technical and financial evaluation process and therefore the question of disparity does not arise. So far, Seven (07) SIPs submitted by Anchor Industry Partners (AIPs), comprising Three from Telangana, One from Andhra Pradesh, One from Rajasthan, One from Odisha and One from Gujarat is approved. The details of the approved clusters are provided in **Annexure I**.

The curriculum review and revision process is a continuous and need-based exercise aimed at ensuring alignment with technological advancements and evolving industry requirements. The evaluation involves assessment of existing curricula with respect to emerging technologies, changing occupational standards, industry demand, employability trends, apprenticeship requirements, training outcomes, and feedback received during implementation.

The curriculum revision process involves extensive consultations with stakeholders including State Governments/ UT Administrations, industry representatives, Sector Skill Councils (SSCs), NSTIs, subject matter experts, academia, employers, implementing agencies and other concerned Ministries/ Departments, wherever required.

Based on the evaluation and stakeholder consultations, curricula are revised to incorporate new technologies, Industry 4.0 applications, Artificial Intelligence (AI), Internet of Things (IoT), automation, green and renewable energy technologies, electric mobility, digital skills, entrepreneurship, workplace safety, environmental sustainability and outcome-based learning.

The Directorate General of Training (DGT) has introduced 32 new-age courses under the Craftsmen Training Scheme (CTS), the details of which are provided in **Annexure II**. Since ITIs are under the administrative and financial control of State Governments, States may adopt these courses in their ITIs.

The industry-led SPVs under the Scheme leads the upgradation and are empowered to propose necessary interventions relating to curriculum redesign, training delivery models, infrastructure upgradation, industry exposure in alignment with local industry needs and the Scheme guidelines. The Scheme aims to enhance employability by equipping learners with industry-relevant skills, facilitating apprenticeships and practical workplace exposure, and providing access to career guidance, placement support, and self-employment opportunities through industry-led governance framework.

The focus of the scheme is to equip trainees with industry-relevant skills in emerging sectors such as Artificial Intelligence (AI), semiconductors, green energy, and other high-growth industrial sectors.

The scheme has been approved to be implemented over a period of five years.

Annexure-I

Annexure I: Details of approved Cluster

S. No.	State Name	Cluster Name	Hub ITI	Spoke ITIs
1	Andhra Pradesh	Visakhapatnam Cluster	Govt. ITI, Kancharapalem	Govt ITI(Women), Vishakhapatnam Govt ITI ,Bobbili, Govt. ITI,Narsipatanam
2	Odisha	Keonihar-Barbil Cluster	Govt. ITI,Barbil	Govt. ITI Anandapur, Govt. ITI Koira, Govt. ITI Karanjia, Govt. ITI Barkote

3	Gujarat	Surat Cluster	Govt. ITI, Surat	Govt. ITI ,Surat (Women), Govt. ITI ,Hajira, Govt. ITI ,Bardoli, Govt. ITI (Women), Sachin
4	Telangana	Old City Cluster	Govt. ITI, Old City	Govt. ITI Warangal, Govt. ITI(Boys), Nalgonda Govt. ITI Vikarabad, Govt. ITI Panjaguda
5	Telangana	Patancheru Cluster	Govt. ITI, Patancheru	Govt. ITI Nalgonda (New), Govt. ITI Marpally, Govt. ITI Bhongir, Govt. ITI Shadnagar
6	Telangana	Sangareddy Cluster	Govt. ITI, Sangareddy	Govt. ITI Hathnoora, Govt. ITI Medak, Govt. ITI Yellareddy, Govt. ITI Dubbaka
7	Rajasthan	Bhiwadi Cluster	Gov ITI, Bhiwadi	ITI Neemrana ITI Tizara ITI Kishangarh Bas ITI Alwar

Annexure-II

List of 32 New Age Trades running in ITIs:

S. No.	Trade Name
1	Additive Manufacturing (3D Printing) Technician
2	Aeronautical Structure and Equipment Fitter

3	Artificial Intelligence Programming Assistant
4	Advanced CNC Machining Technician
5	Computer Aided Manufacturing (CAM) Programmer
6	Cyber Security Assistant
7	Data Annotation Assistant
8	Drone Pilot (Junior)
9	Drone Technician
10	Engineering Design Technician (Artisan Using Advanced Tool)
11	Fiber to Home Technician
12	Geo Informatics Assistant
13	Green Hydrogen Production Technician
14	Industrial Internet of Things (IIoT) Technician
15	Industrial Robotics and Digital Manufacturing
16	Information Technology
17	Internet of Things Technician (Smart Agriculture)
18	Internet of Things Technician (Smart City)
19	Internet of Things Technician (Smart Healthcare)
20	Manufacturing Process Control & Automation
21	Mechanic Electric Vehicle
22	Multimedia, Animation & Special Effects
23	Semiconductor Technician
24	Small Hydro Power Plant Technician

25	Smartphone Technician Cum App Tester
26	Software Testing Assistant
27	Solar Technician (Electrical)
28	Technician Mechatronics
29	Virtual Analysis and Designer – FEM (Finite Element Method) (Basic Designer and Virtual Verifier)
30	Wind Plant Technician
31	5G Network Technician
32	Nuclear Power Plant Technician

This information was given by the Minister of State (Independent Charge), Ministry of Skill Development and Entrepreneurship (MSDE), Shri Jayant Chaudhary in a written reply in the Lok Sabha today.

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