

Skill Development For Emerging Technologies

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Under the Government of India's Skill India Mission (SIM), MSDE delivers skill, re-skill and up-skill training through an extensive network of skill development centres under various schemes, viz. Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Jan Shikshan Sansthan (JSS), National Apprenticeship Promotion Scheme (NAPS) and Craftsmen Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country. The SIM aims at enabling the youth of India to get future-ready, equipped with industry-relevant skills including Artificial Intelligence, Machine Learning, Robotics, Cyber Security, Semiconductor Manufacturing and Green Technologies.

State-wise details of the candidates trained under various schemes of MSDE during the last five years (2021-22 to 2025-26) is given at **Annexure-I**. Details of the candidates trained under various schemes of MSDE in job roles pertaining to Artificial Intelligence, Machine Learning, Robotics, Cyber Security, Semiconductor Manufacturing and Green Technologies is given at **Annexure-II**.

To ensure that the skills imparted are aligned with the industry's current and futuristic requirements and thereby improve the employability, the following specific steps have been taken by MSDE across the country:

- National Council for Vocational Education and Training (NCVET) has been set up as an overarching regulator establishing regulations and standards to ensure quality in the Technical and Vocational Education and Training (TVET) space. NCVET recognises the industry bodies as the Awarding Bodies (ABs) and/or Assessment Agencies (AAs).
- The Awarding Bodies are expected to develop the qualifications as per the industry demand and map them with the identified occupations as per the National Classification of Occupations, 2015 and obtain industry validations. NCVET has approved 10209 qualifications as per the industry requirements, out of which 2975 qualifications are valid and active, and 7234 qualifications are archived.
- Directorate General of Training (DGT) is implementing Flexi MoU Scheme and Dual System of Training (DST) in collaboration with industries to provide training to ITI students in real industrial environment.
- DGT has signed MoU with IT Tech companies like IBM, Microsoft, Autodesk, AWS, Shell, etc. to ensure industry linkages for the institutes at the state and regional levels. These partnerships facilitate the provision of technical and professional skills training in modern technologies.
- DGT has introduced new age /future skills courses under CTS to provide training in emerging areas such as 5G Network, AI Programming, Cyber Security, Drone Technology, Internet of Things, etc.
- Under PMKVY, the new age/future skills job-roles have been specially aligned with Industry 4.0 requirements in areas like AI/ML, Robotics, Mechatronics, Drone Technology, etc. for upcoming market demand and industry requirements.
- MSDE has launched Skill India Digital Hub (SIDH), a unified platform that integrates skilling, education, employment, and entrepreneurship ecosystems to provide a life-long array of services.

Through Skill India Digital Hub, candidates can have access to skill training, jobs and apprenticeship opportunities. The details of the trained candidates are available on SIDH portal for connecting with potential employers.

- Two (02) Indian Institute of Skills (IIS) have been established at Ahmedabad and Mumbai, in Public Private Partnership (PPP) mode, with an aim to align industry-ready workforce to emerging economic opportunities.
- 36 Sector Skill Councils (SSCs), led by industry leaders in the respective sectors, have been set up which are mandated to identify the skill development needs of respective sectors as well as to determine skill competency standards.
- Rozgar Melas and PM National Apprenticeship Melas have been organized by the Ministry to facilitate the placements opportunities to the certified candidates across the country.
- National Education Policy (NEP), 2020 envisages greater integration of vocational education with mainstream education and promotes seamless mobility between academic and vocational pathways. In line with this vision, the Apprenticeship Embedded Degree Programme (AEDP), developed in collaboration with UGC and AICTE, enables students enrolled in degree and diploma programmes to undertake apprenticeship training as an integral part of their curriculum. The programme enhances employability, promotes outcome-based learning, strengthens industry-academia linkages and facilitates acquisition of industry-relevant skills.
- In order to enhance the overall quality and relevance of vocational training in the country, Pradhan Mantri Skilling and Employability Transformation through Upgraded ITIs (PM SETU) scheme has been launched that inter-alia aims to upgrade 1,000 Government ITIs (200 Hub ITIs and 800 Spoke ITIs) in a Hub and Spoke model. It envisages the upgradation of Industrial Training Institutes (ITIs) through industry-led Special Purpose Vehicles (SPVs), which will lead to curriculum development, training delivery, infrastructure enhancement, industry exposure, and placement and self-employment facilitation in line with local industry requirements. 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 scheme also aims to augment capacity 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.

Annexure-I

State-wise details of the candidates trained under various schemes of MSDE during the last five years (2021-22 to 2025-26)

State/UT	PMKVY	JSS	NAPS	CTS / ITI
A&N Islands	2,510	8,097	474	3,129
Andhra Pradesh	90,011	60,263	1,02,147	2,50,950
Arunachal Pradesh	23,882	-	395	3,270
Assam	1,52,512	52,376	47,640	22,354
Bihar	1,87,902	1,97,653	31,851	5,59,901

Chandigarh	2,479	9,332	6,143	4,973
Chhattisgarh	39,178	1,29,809	24,937	1,13,569
Delhi	47,959	29,711	1,02,374	48,661
Goa	1,211	9,759	43,902	11,026
Gujarat	1,02,190	86,745	4,29,570	4,33,939
Haryana	1,38,815	33,618	3,24,402	2,54,079
Himachal Pradesh	40,534	92,335	42,855	1,02,168
Jammu And Kashmir	1,47,832	6,893	4,936	42,969
Jharkhand	80,150	1,01,722	49,652	1,94,035
Karnataka	1,21,413	1,14,745	3,88,244	3,54,316
Kerala	39,040	88,874	64,190	1,64,007
Ladakh	1,734	1,529	181	1,661
Lakshadweep	240	5,177	41	1,588
Madhya Pradesh	3,79,445	2,75,669	1,22,037	3,55,003
Maharashtra	1,73,609	2,03,879	11,76,491	6,09,589
Manipur	32,314	38,419	546	3,203
Meghalaya	16,259	6,999	1,013	3,952
Mizoram	17,692	7,057	446	1,574
Nagaland	17,778	9,542	128	1,396
Odisha	74,638	2,67,840	52,682	2,93,410
Puducherry	7,609	-	15,123	3,621
Punjab	1,54,901	17,883	82,940	2,08,592

Rajasthan	3,62,319	79,759	97,483	4,83,608
Sikkim	7,379	-	1,755	1,701
Tamil Nadu	1,68,094	79,551	4,68,817	1,79,286
Telangana	65,069	58,117	1,89,568	1,57,277
DNH & DD	2,066	14,447	12,836	3,680
Tripura	27,448	18,654	1,977	11,479
Uttar Pradesh	6,58,680	4,61,298	3,51,728	15,78,759
Uttarakhand	64,147	76,175	1,01,010	51,411
West Bengal	1,09,870	71,682	1,32,915	1,93,668
Overall	35,58,909	27,15,609	44,73,459	67,07,804

Annexure-II

Details of the candidates trained under various schemes of MSDE in job roles pertaining emerging technologies

Sectors	PMKVY (since inception to 30.06.2026)	JSS (Since 2018-19 to 30.06.2026)	NAPS (Since 2018-19 to 30.06.2026)	CTS / ITIs (Sessions 2018 to 2025)
Artificial Intelligence	39,104	-	3,222	893
Machine Learning	300	-	54	-
Robotics	1,898	-	5,208	17,259
Cyber Security	663	2,012	108	-
Semiconductor	11,523	-	-	31
Green Jobs	5,18,058	4,086	13,830	12,626

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 Rajya Sabha today.

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(रिलीज़ आईडी: 2294865) आगंतुक पटल : 487
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