

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
RAJYA SABHA
UNSTARRED QUESTION NO. 3158
ANSWERED ON 20.08.2025

PROMOTION OF EMERGING SECTOR SKILLS AND FUTURE READINESS

3158. SHRI DHANANJAY BHIMRAO MAHADIK:

Will the MINISTER OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) the initiatives taken to develop skills in emerging sectors like AI, robotics, and green technology;
- (b) the budget allocation for future-oriented skill training programs;
- (c) the collaboration with industry and research bodies for curriculum development; and
- (d) the plans to reskill and upskill the existing workforce to meet evolving market demands?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a): Under the Government of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurship (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 Craftsman Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country. The SIM aims at enabling youth of India to get future ready and equipped with industry relevant skills.

To promote new age skills in areas like AI/ML, Robotics and Green technology, MSDE has undertaken the following initiatives:

- (i) Under PMKVY, more than 200 new age/future skills job-roles have been specially aligned with Industry 4.0 requirements in areas like AI/ML, Robotics, EVs, Mechatronics, Drone Tech, etc. for upcoming market demand and industry requirements.
- (ii) Under NAPS, the apprentices are engaged by the establishment in trades (both, designated and optional), which includes those pertaining to new-age /future skills.
- (iii) Directorate General of Training (DGT) under aegis of MSDE has introduced 31 new age /future skills courses in Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs) under CTS to provide training in emerging areas such as 5G Network, AI/ML, Cyber Security, Drone Technology, etc.
- (iv) DGT has signed MoU with IT Tech companies like IBM, CISCO, Future Skill Rights Network, Amazon Web Services (AWS) and Microsoft to ensure industry linkages for the institutes at the state and regional levels under CSR initiatives. These partnerships facilitate the provision of technical and professional skills training in modern technologies.
- (v) Indian Institute of Skills (IIS) established at Ahmedabad and Mumbai, in Public Private Partnership (PPP) Mode, provide training to create a pool of industry-ready workforce for Industry 4.0, equipped with cutting-edge technology and hands-on training.

(vi) MSDE has launched Skill India Digital Hub (SIDH) platform, a comprehensive and accessible platform for skill enhancement, offering industry-relevant skill courses, job opportunities, and entrepreneurship support to youth of the country. SIDH offers an extensive array of AI/ML, Robotics and Green tech courses.

(b): There is no separate budget allocation for the future-oriented skill training programs. Funds under PMKVY are released to implementing agencies for meeting the training cost as per prescribed norms. Under JSS scheme, funds are released to Non-Governmental Organizations (NGOs) directly. Under NAPS, stipend support up to Rs 1500/- per month is released to apprentices through DBT and not to establishments covered. Day to day administration as well as financial control in respect of ITIs lies with the respective State Government/ UT Administration. Details of the fund released for implementation of the schemes of MSDE are as under:

Scheme (s)	Amount (in Rs. Cr)
PMKVY (2015-16 up to 30.06.2025)	11,429.21
NAPS (2018-19 up to 30.06.2025)	1,924.17
JSS Scheme (2018-19 up to 30.06.2025)	883.71

(c): 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. The Awarding Bodies recognised by NCVET are expected to develop the qualifications as per the industry demand and obtain industry validations. Also, 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.

(d): In addition to the steps mentioned in part (a) and (c) above, the following specific steps have been taken by MSDE to ensure that the skills imparted are aligned with the current and evolving needs of industry and thereby improve employability of the youth:

- (i) National Council for Vocational Education and Training (NCVET) has approved 8693 qualifications as per the industry requirements, out of which 2266 qualifications are valid and active, and 6427 qualifications are archived for being not relevant.
- (ii) Directorate General of Training (DGT) under the aegis of MSDE is implementing Flexi MoU Scheme and Dual System of Training (DST) which are meant to provide training to ITI students in industrial environment as per their requirements.
- (iii) DGT has signed MoU with IT Tech companies like IBM, CISCO, Future Skill Rights Network, Amazon Web Services (AWS) and Microsoft to ensure industry linkages for the institutes at the state and regional levels under CSR initiatives. These partnerships facilitate the provision of technical and professional skills training in modern technologies.
- (iv) Indian Institute of Skills (IIS) established at Ahmedabad and Mumbai, in Public Private Partnership (PPP) Mode, provide training to create a pool of industry-ready workforce for Industry 4.0, equipped with cutting-edge technology and hands-on training.
- (v) 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. The details of the trained candidates are available on SIDH portal for connecting with potential employers. Through SIDH, candidates can have access to jobs and apprenticeship opportunities.
