

Impact of AI and Emerging Technologies

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The skill development programmes of the Government are designed and implemented to bridge the identified skill gaps across the emerging technology sectors. To align the training programs as per the market needs, 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. The evolving skill requirements are aligned with the emerging technologies including artificial intelligence, automation, and digital collaboration tools.

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) and National Apprenticeship Promotion Scheme (NAPS), 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 also covering automation and other emerging technologies. Some of these initiatives include:

- 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.
- Directorate General of Training (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.
- MSDE has launched a national-level SOAR (Skilling for AI Readiness) initiative, aimed at embedding AI awareness and foundational skills among school students (Classes 6–12) and building AI literacy among educators. The programme seeks to bridge the digital divide by ensuring equitable access to AI education across geographies, thereby supporting the national agenda of inclusive, future-ready skilling.
- Ministry of Electronics and IT (MeitY) along with IT-ITeS Sector Skills Council (Nasscom) has launched the FutureSkills Prime platform for equipping learners with knowledge of 11 emerging technologies by offering courses on Artificial Intelligence, Cloud Computing, Cybersecurity, and other digital skills. To support the skilling of the youth, Nasscom has created 146 Qualifications in the future skills related job roles.

Some of the initiatives taken by MSDE in collaboration with industry and academic institutions to re-align with the changing demand of the industry include:

- 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 and academic institutions as Awarding Bodies (ABs) and/or Assessment Agencies (AAs).
- 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. Out of total, 678 qualifications are categorized as the future skills qualifications by NCVET.
- 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.
- 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.
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- 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.
- Pradhan Mantri Skilling and Employability Transformation through Upgraded ITIs (PM SETU) scheme is launched to upgrade 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.

The Government undertakes periodic reviews of skilling initiatives under the Skill India Mission, assessing enrolment, certification, placement, self-employment outcomes and employer feedback to gauge their effectiveness in strengthening employability and future skills. These reviews support continuous curriculum updates, industry collaboration and improvements in implementation modalities, ensuring that skilling programmes remain aligned with evolving technology trends and labour-market requirements. The effectiveness of broader skill development schemes is also evaluated through MIS-based monitoring, third-party assessments and beneficiary feedback.

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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