

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO. 1258
ANSWERED ON 27/07/2026

TRAINING IN EMERGING TECHNOLOGIES

1258. SHRI ANUP SANJAY DHOTRE:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) whether the Government has undertaken any initiatives to impart training in emerging technologies such as Artificial Intelligence, Robotics, Data Analytics, Cyber Security, Drone Technology and Green Skills during the last three years and the current year;
- (b) the number of candidates particularly Akola district, who have benefited from such programmes from Maharashtra;
- (c) whether the Government has collaborated with educational institutions, industry and technology partners to expand training in future-ready skills;
- (d) whether there is any proposal to establish specialised training facilities for emerging technologies in Maharashtra, including the Vidarbha region; and
- (e) if so, the details thereof along with the expected timeline for implementation?

ANSWER

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

(SHRI JAYANT CHAUDHARY)

(a) & (b): 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 Craftsmen Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country including Maharashtra. The SIM aims at enabling the youth of India to get future-ready, equipped with industry-relevant skills.

The new age/future skills job-roles aligned with Industry requirements in areas like Artificial Intelligence, Robotics, Data Analytics, Cyber Security, Drone Technology and Green Skills has been introduced in the long-term as well as short-term training programs. Details of the candidates trained in Maharashtra including its Akola district, in the job-roles pertaining to areas like Artificial Intelligence, Robotics, Data Analytics, Cyber Security, Drone Technology and Green Skills are given at **Annexure-I**.

To enable skill development in the Electronics System Design and Manufacturing (ESDM) sector, Ministry of Electronics and Information Technology implemented two schemes, viz. (i) "Scheme for Financial Assistance to select States/UTs for Skill Development in Electronics System Design and Manufacturing (ESDM) Sector" and (ii) "Skill Development in ESDM for Digital India". The schemes concluded on 30.08.2025. Under both the Schemes, 4,93,919 candidates were enrolled/trained and 3,75,289 candidates have been certified.

The National Institute of Electronics and Information Technology (NIELIT) through its wide network of own centres and Accredited Training Partners/Facilitation Centres, has trained more

than 43 Lakh candidates in last 5 years under various Degree/Diploma Level Courses and Skill-Based Courses (Long Term & Short Term), including the Digital Literacy & Cyber Security Programmes across the country. NIELIT has also launched the NIELIT Digital University (NDU) Platform under MeitY to deliver online and blended skill-based courses in emerging technology areas. This Platform is designed to offer future-ready, industry-aligned programs in emerging technologies such as Artificial Intelligence, Cybersecurity, Cloud Computing, and other frontier domains. This platform also features built-in virtual labs for real-time experimentation in Semiconductor Design, cybersecurity, Cyber Forensics, Industry 4.0, and other emerging domains.

(c): To ensure that the skills imparted are aligned with the industry requirements and to expand training in future-ready skills, the following specific steps have been taken by MSDE across the country including Maharashtra:

- 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 recognizes 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. Out of total, 678 qualifications are categorized as the future skills qualifications by NCVET.
- 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.
- 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.

(d) & (e): The schemes of MSDE are demand driven and training centres under these schemes are set up or engaged on need basis aligned with the sectoral requirements. District-wise details of the training centres set-up or engaged by MSDE in Maharashtra and its Vidarbha region is at **Annexure-II**.

Further, 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 inter-alia aims 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.

ANNEXURES REFERRED TO IN REPLY TO PART (A) & (B); AND (D) & (E) OF LOK SABHA UNSTARRED QUESTION NO. 1258 ANSWERED ON 27.07.2026 REGARDING 'TRAINING IN EMERGING TECHNOLOGIES'

Annexure-I

Details of the candidates trained in Maharashtra including its Akola district, in the job-roles in emerging areas under Schemes of MSDE:

PMKVY:

Sector Name	Job Role	Trained
Agriculture	Basics of Agri Commodity Market	273
	Kisan Drone Operator	124
	Micro-Irrigation Technician	517
	Solar Pump Technician	593
Automotive	Automotive Additive Manufacturing Operator	30
	Automotive Additive Manufacturing Technician	30
	Automotive IIOT Application Engineer	80
	Electric Vehicle Assembly Operator	21
	Electric Vehicle Service Technician	1,031
Electronics and Hardware	Battery System Design Engineer	67
	Battery System Repair Technician	90
	Drone Manufacturing and Assembly Technician	112
	Electronic Hardware Assembly Operator	1,792
	Electronics Machine Maintenance Executive	634
	Embedded Software Engineer	90
	Internet of Things (IoT) Developer	178
	IoT Hardware Analyst	959
	Mechanical Fitter Electronics	167
	Mechatronics Designer and System Integrator	30
	Solar LED Technician	568
	Solar Panel Installation Technician	2,667
Gems and Jewellery	Jewellery designer - CAD	15
Green Jobs	Green Hydrogen Plant Entrepreneur	58
	Green Hydrogen Plant Technician	189
	Junior Technician - Mechanized Sewer Cleaning	191
	Small Hydro Power Plant Technician-(Jal Urja Mitra)	75
	Solar PV Designer	114
Healthcare	Genetic Counselor	784
	Telehealth Services Coordinator	240
IT / IT-ITeS	AI - Business Intelligence Analyst	507
	AI - Data Engineer	60
	AI - Data Scientist	90
	AI - Database Administrator	165
	AI - DevOps Engineer	60
	AI - Machine Learning Engineer	540
	Application Developer - Web & Mobile	1,163
	Cloud Administrator	146
	Cloud Application Developer	224
	Data Analysis with Python and SQL	25
	Data Annotator	240
	IoT - Product Manager	96
	IoT - Software Analyst	80
	Product Manager - Web & Mobile	120
	Software Vulnerability/Penetration Tester	240
Logistics	Warehouse Supervisor	918
Media and Entertainment	Technical artist -AR-VR	210
Telecom	Project Engineer - 5G Networks	153

	Technician 5G - Active Network Installation	448
	Telecom E-Waste Handler	191
	Telecom Rigger - 5G and Legacy Networks	120
	Telecom Technician - IoT Devices/Systems	561
	Wireless Technician	68
Overall		18,144

JSS Scheme

Job Role	Trained
Data Analysis Assistant	6,189
Solar PV Installation Helper	1,853
Solar PV Project Helper	2,233
Overall	10,275

NAPS:

Emerging / Future-ready Skill Area	Apprentices Engaged
Artificial Intelligence related courses	362
Robotics related course	899
Data Analytics related courses	192
Cyber Security related courses	34
Drone related courses	26
Green Skills related courses	6614
Overall	8,127

CTS:

Trades	Total
Mechanic Electric Vehicle	369
Solar Technician (Electrical)	3,451
Information Technology	26
Multimedia Animation & Special Effects	341
Technician Mechatronics	191
IoT Technician (Smart City)	149
Smartphone Technician Cum App Tester	3
IoT Technician (Smart healthcare)	60
Artificial Intelligence Programming Assistant	85
Additive Manufacturing Technician Three D Printing	40
Geo Informatics Assistant	134
Aeronautical Structure and Equipment Fitter	231
Overall	5,080

Annexure-II

District-wise details of the training centres set-up or engaged by MSDE in Maharashtra and its Vidarbha region as on 30.06.2026

District	Training Centres (STT+SP)	JSS Centres	NAPS Establishments	ITI (Govt & Pvt)
Ahilyanagar	18	1	327	45
Akola	7	1	59	12
Amravati	30	-	164	33
Beed	9	1	57	29
Bhandara	14	-	39	41
Buldhana	14	1	45	25
Chandrapur	17	2	93	52
Chhatrapati Sambhajnagar	13	1	680	20
Dharashiv	6	-	74	19
Dhule	10	1	166	24
Gadchiroli	11	1	19	17
Gondia	19	1	31	23
Hingoli	7	-	31	9
Jalgaon	13	1	133	91
Jalna	7	-	60	11
Kolhapur	32	-	868	52
Latur	17	1	95	22
Mumbai	11	2	1,091	13
Mumbai Suburban	9	-	429	15
Nagpur	47	-	674	82
Nanded	17	-	96	27
Nandurbar	13	2	37	12
Nashik	40	1	772	51
Palghar	8	-	265	16
Parbhani	13	-	79	16
Pune	70	1	3,845	62
Raigad	12	1	400	21
Ratnagiri	2	1	272	17
Sangli	14	-	243	26
Satara	11	-	383	19
Sindhudurg	2	1	157	11
Solapur	16	-	212	36
Thane	13	-	1,017	19
Wardha	12	-	83	23
Washim	8	-	21	8
Yavatmal	15	-	89	22
Overall	577	21	10,802	1021

* Short-term Training (STT) and Special Projects (SP) up to 30.06.2026
