

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO - 422
ANSWERED ON – 05/02/2024

TRAINING UNDER ARTIFICIAL INTELLIGENCE

422. SHRI DUSHYANT SINGH:

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

- (a) whether the Government is incorporating the subject areas and training material related to Artificial Intelligence in the syllabus of the various training courses and ITIs across the country;
- (b) if so, the details thereof;
- (c) whether the Government is planning to conduct Training and Skill Development Workshops in the rural areas of the country to bring down the digital divide; and
- (d) if so, the details thereof and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF
SKILL DEVELOPMENT AND ENTREPRENEURSHIP
(SHRI RAJEEV CHANDRASEKHAR)

(a) and (b) Under the Govt. of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurships (MSDE) delivers skill, re-skill and up-skill training through an extensive network of skill development centres/colleges/institutes etc. 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 Institute (ITIs), to all the sections of the society across the country. The SIM aims at enabling youth of India to get future ready & industry ready skills.

Under SIM, MSDE through IT-ITeS Sector Skill Council (SSC) has developed 10 Qualification Packs (QPs) under the 'Occupation': Artificial Intelligence & Big Data Analytics (AIBDA) for short term training in various skilling programs. Details of QPs are given below:

SN.	Qualification Pack (QP) / Job Role Name	NSQF Level
1	AI – Data Quality Analyst	5
2	AI - Business Intelligence Analyst	5
3	AI - Database Administrator	5
4	AI - Machine Learning Engineer	5
5	AI - DevOps Engineer	5
6	AI – Data Scientist	6

7	AI - Data Engineer	6
8	AI - Data Architect	7
9	AI - Solution Architect	7
10	Data Annotator	4

Under long-term skilling, Directorate General of Training (DGT) under MSDE has introduced one year duration course name 'IoT Technician (Smart Health Care)' in 2018 under CTS which also covers the module on Artificial Intelligence (AI). It is currently being taught in 19 Industrial Training Institutes (ITIs) of 13 States/UT.

Further, in order to re-skill and up-skill IT-professionals to be adept with the emerging technologies including Artificial Intelligence (AI), IT-ITeS SSC in partnership with Ministry of Electronics and Information Technology (MeitY) has launched FutureSkills Prime (FSP) platform. A learner can seamlessly access free and paid content on all the skills of the future, virtual labs, undergo assessments and get certified on FutureSkills Prime platform. Till date, more than 1.92 lakh candidates have been trained on Artificial Intelligence & Big Data Analytics (AIBDA) courses/programs.

(c) and (d) In order to upskill the workforce in Information Technology or computer based skills across the country, MSDE through National Skill Development Corporation (NSDC) has facilitated the setting up of IT-ITeS Sector Skill Council, an industry led body, to develop National Skill Qualification Framework (NSQF) aligned job roles and course curriculum, conduct skill gap studies and assess and certify trainees exclusively in Information Technology.

Under PMKVY, since inception i.e., 2015, till 31.12.2023, 5.07 lakh candidates have been trained/oriented in IT-ITeS sector across the country which also covers rural areas. Some of the key courses are Data Entry Operator, Biometric Data Entry Operator, IT Help Desk Attendant, etc.

Under long-term training provided through CTS, digital skills are a mandatory part of the Employability Skills curriculum being imparted in all ITI courses and all ITIs are equipped with IT labs for digital skilling. The Information Technology forms an integral part of various CTS trades. Presently, out of total 15,020 ITIs across the country, 11,214 ITIs are situated in rural areas.

Further, MSDE has launched Skill India Digital (SID) platform, a comprehensive and accessible platform for skill enhancement, offering industry-relevant skill courses, job opportunities, and entrepreneurship support to youth of the country from rural and urban areas.

SID supports Industry 4.0 by offering futuristic courses on Big Data, Machine Learning and Analytics, etc. provided by its digital learning partners. Industry 4.0 courses such as Python with Advanced AI, Artificial Intelligence Foundation, Generative AI, Data Analytics Essentials, Cybersecurity Essentials, Introduction to Data Science, Kisan Drone Operator, EV Service Technician, Biowaste Management, along with other certification courses, are being offered on the platform.
