GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO-3898
ANSWEREDON-24.03.2025

AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION

3898.   ADV. K. FRANCIS GEORGE:

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

(a)   whether the Government has introduced AI and digital health training under the Skill India Mission, including specific courses on AI- driven healthcare diagnostics, if so, the details thereof;

(b)   the steps taken by the Government to upskill doctors, radiologists, and technicians in AI-based tools (e.g., medical imaging decision support) to enhance clinical adoption;

(c)   whether the Ministry is collaborating with the Ministry of Health, private tech firms, or academic institutions to establish AI-focused training centers or simulation labs, if so, the details thereof along with the expected outcomes; and

(d)   whether these skill development efforts address healthcare workforce shortages, particularly by enabling auxiliary health workers to operate AI-assisted diagnostic equipment in rural areas, if so, the details thereof?

ANSWER

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

(SHRI JAYANT CHAUDHARY)

(a & b) Ministry of Skill Development and Entrepreneurship (MSDE) imparts skill development training (skilling, re-skilling and upskilling) and AI related training through its various flagship 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 Directorate General of Training (DGT), under the Ministry of Skill Development & Entrepreneurship has developed NSQF Compliant Course namely "IoT (Internet of Things) Technician (Smart Healthcare) under Craftsmen Training Scheme (CTS). The duration of the course is one year. The topics & applications related to the Introduction to Artificial Intelligence (AI) & Machine Learning have been included in the curriculum of the IoT Technician (Smart Healthcare) course for awareness of AI. Details of ITIs/NSTIs and enrolment in last three sessions i.e from session 2022-23 to 2024 is placed at **Annexure-I.**

Pradhan Mantri Kaushal Vikas Yojana 4.0 (PMKVY 4.0) is a demand driven scheme aims to enhance the employability of the youth to access employment opportunities by equipping them with industry relevant skills including Artificial Intelligence (AI). Under PMKVY 4.0 details of job roles related to Artificial Intelligence and candidates trained till 31.12.2024 is placed at **Annexure-II.**

National Apprenticeship Promotion Scheme (NAPS) launched in August, 2016 aims to promote apprenticeship training throughout the country, including job roles related to AI. The scheme was extended to continue as NAPS-2 from 2022-23 and promotes apprenticeship training, by providing partial stipend support to the apprentices engaged under the Apprentices Act, 1961 and the Rules thereunder. Under, NAPS-2, the stipend support by Government of India (GoI) is paid through Direct Benefit Transfer (DBT) to the bank account of apprentices. Under NAPS, the total apprentices engaged in job roles related to AI from FY 2018-19 to FY 2024-25 (as on 28th February, 2025) are 972. Details are given in **Annexure-III.**

(c) The Directorate General of Training (DGT), META, and SkillVeri have formed a collaborative partnership to establish Centers of Excellence in Virtual Reality (VR) and Mixed Reality (MR) at five selected National Skill Training Institutes (NSTIs). As a six-month pilot initiative, it aims to provide immersive and cost-free learning experiences for students and trainers, with META financially supporting the program under its CSR initiative. META supplies Oculus Quest devices and handsets, while NSTIs provide infrastructure, including dedicated spaces and basic equipment like LED screens or projectors. SkillVeri serves as the technical partner, implementing training modules aligned with the National Skills Qualification Framework (NSQF) curriculum. These modules cover trades, such as, welding, refrigeration and air-conditioning, painting, and solar panel installations, with training conducted at NSTIs located in Chennai, Kanpur, Bangalore, Hyderabad, and Jodhpur. By utilizing advanced VR and MR technologies, the initiative enhances skill development, workforce readiness, and digital competencies. As part of the effort, META also introduces digital skilling curricula to empower aspiring entrepreneurs to utilize platforms like Facebook and Instagram for business growth.

Trade-Artificial intelligence (AI) under Craftsmen Training Scheme (CTS) is being run in 19 NSTIs. State -wise detail of NSTIs with intake capacity in the trade of Artificial intelligence (AI) is given at **Annexure-IV.**

A demand-driven approach, under PMKVY 4.0, has been adopted for the empanelment of Training Centres (TC) through the process of accreditation and affiliation through online portal Skill India Digital Hub to enhance skill development among candidates. As on 31.12.2024, 319 such TC empanelled across India for training in aforesaid AI related job roles.

(d) Job role wise details of candidates trained/ oriented in Health care sector, under PMKVY since its inception, which depicts commitment of PMKVY to address the need in this Sector are given at **Annexure-V.**

ANNEXURE REFERRED TO IN REPLY TO PART (a & b) OF THE LOK SABHA UNSTARRED QUESTION NO. 3898 ANSWERED ON 24.03.2025 REGARDING "AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION"

Enrolment in IoT Technician (Smart Healthcare) for session 2022-23 to 2024-25

Trades name	No. of ITIs / NSTIs	Session 2022	Session 2023	Session 2024
IoT Technician (Smart Healthcare)	29	**127**	**220**	**272**
Total	29	**127**	**220**	**272**

ANNEXURE REFERRED TO IN REPLY TO PART (a & b) OF THE LOK SABHA UNSTARRED QUESTION NO. 3898 ANSWERED ON 24.03.2025 REGARDING "AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION"

Details of job roles related to Artificial Intelligence and candidates Trained / Oriented till 31.12.2024 under PMKVY

Job Role Name	Trained / Oriented
AI-Business Intelligence Analyst	1,245
AI-Data Architect	575
AI-Data Engineer	997
AI-Data Quality Analyst	3,888
AI-Data Scientist	3,450
AI-Data base Administrator	5,329
AI-Dev Ops Engineer	651
AI-Machine Learning Engineer	2,884
AI-Solution Architect	241
AI&ML-Jr. Telecom Data Analyst	254
AI Devices Installation Operator	165
Pharmacovigilance Case-Processing (Incidents/adverse Event using software including AI tools)	95
Total	**19,774**

ANNEXURE REFERRED TO IN REPLY TO PART (a & b) OF THE LOK SABHA UNSTARRED QUESTION NO. 3898 ANSWERED ON 24.03.2025 REGARDING "AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION"

Total Apprentices engaged in job roles related to AI from FY 2018-19 to FY 2024-25 (as on 28th February, 2025) under NAPS

Sr.	Job Roles	Sum of Engaged
1	AI-Business Intelligence Analyst	80
2	AI-Data Engineer	124
3	AI-Database Administrator	58
4	AI-Machine Learning Engineer	10
5	AIÂ–Data Quality Analyst	409
6	AIÂ–Data Scientist	109
7	AIÂ–DevOps Engineer	182
	Total	**972**

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF THE LOK SABHA UNSTARRED QUESTION NO. 3898 ANSWERED ON 24.03.2025 REGARDING "AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION"

State -wise detail of NSTIs with intake capacity in the trade of Artificial intelligence (AI)

Sr.	Name of the State	Name of the Institute	Intake capacity	Admission Session (2024-25)
1.	Bihar	National Skill Training Institute for Women, Patna	24	15
2.	Gujarat	National Skill Training Institute for Women, Vadodara	24	24
3.	Kerala	National Skill Training Institute, Calicut	24	24
4.	Karnataka	National Skill Training Institute, Bengaluru	24	20
		National Skill Training Institute for Women, Bengaluru	24	16
5.	Madhya Pradesh	National Skill Training Institute for Women, Indore	24	24
6.	Maharashtra	National Skill Training Institute, Mumbai	24	24
		National Skill Training Institute for Women, Mumbai	24	24
7.	Punjab	National Skill Training Institute, Ludhiana	24	13
8.	Rajasthan	National Skill Training Institute, Jodhpur	24	19
		National Skill Training Institute for Women, Jaipur	24	24
9.	Tamil Nadu	National Skill Training Institute, Chennai	24	24
10.	Telangana	National Skill Training Institute - Ramanthapur Hyderabad	24	24
		National Skill Training Institute for Women, Hyderabad	24	24
11.	Uttar Pradesh	National Skill Training Institute, Kanpur	24	24
		National Skill Training Institute for Women, Noida	48	43
		National Skill Training Institute for Women, Allahabad	24	24
12.	West Bengal	National Skill Training Institute, Howrah	24	24
		National Skill Training Institute for Women, Kolkata	24	24
Total			**480**	**438**

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF THE LOK SABHA UNSTARRED QUESTION NO. 3898 ANSWERED ON 24.03.2025 REGARDING "AI AND DIGITAL HEALTH TRAINING UNDER SKILL INDIA MISSION"

Job role wise details of candidates trained/ oriented in Healthcare Sector under PMKVY

Job Roles Name	Trained/Oriented
General Duty Assistant	1,11,817
GDA(General Duty Assistant) Level 4	50,947
COVID Frontline Worker (Basic Care Support)	41,548
Emergency Medical Technician-Basic	34,803
COVID Frontline Worker (Home Care Support)	27,827
Home Health Aide	21,817
COVID Frontline Worker (Advanced Care Support)	17,334
Front Line Health Worker	17,323
COVID Frontline Worker (Sample Collection Support)	12,957
Tele health Services Coordinator	11,195
Healthcare Hygiene and Housekeeping Aide	10,251
YogaWellness Trainer	10,023
COVID Frontline Worker (Emergency Care Support)	9,404
Geriatric Caregiver (Institutional & Home Care)	9,340
Ayurveda Dietician	6,587
Home Health Aide Level4	4,314
Medical Equipment Assistant (Basic Clinical Equipment)	4,194
Pharmacy Assistant	4,141
Diabetes Educator	2,491
Patient Relations Associate	2,313
Assistant Yoga Instructor	2,097
Vision Technician	1,678
Panchakarma Assistant	1,622

Ayurveda Ahara & Poshana Sahayak	1,567
MedicalLaboratoryTechnician	1,509
Pradhan Mantri Arogya Mitra	1,297
COVID Frontline Worker (Medical Equipment Support)	1,125
Diet Assistant	1,058
Diabetes Educator Leve l4	777
Medical Records & health Information Technician	750
Healthcare Quality Assurance Manager	601
DentalAssistant	538
PhlebotomyTechnician	456
GeneticCounselor	335
Emergency Medical Technician (EMT) - Advanced	268
DialysisTechnicianLevel4	251
GeneralDutyAssistant-Advanced	166
Garbhini Rakshaka	150
DialysisTechnician	138
TransplantCoordinator	90
Refractionist Leve l4	60
Emergency Medical Technician-Advanced	34
Operating Theatre Technician	30
Prakriti Evaluator	30
Radiology Technician	15
Medical Sales Representative	12
Assistant Physiotherapist	3
Total	**4,27,283**

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