

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO. 2234
ANSWERED ON 09.12.2024

DIGITAL SKILL TRAINING

2234. SHRI E T MOHAMMED BASHEER:

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

- (a) whether in light of increasing digital transformation, the Government has taken initiatives to expand digital literacy and digital skill training and if so, the details thereof;
- (b) whether the Government has made any collaboration with international organizations to adopt global best practices in digital skill training; and
- (c) if so, the details thereof?

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/ 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 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 including digital literacy and digital skill training.

The details of initiatives taken by Government of India to promote digital literacy and digital skill training are as under:

(i) Under PMKVY all job-roles have been specially aligned with industry requirement. There are new age/future skills job-roles including digital courses like Drone Technician, Drone Operator, Telecom Rigger - 5G and Legacy Networks, AI - Machine Learning Engineer, which are specially designed for upcoming market demand and industry requirements. Details of candidates enrolled for the new age/future skills job roles under PMKVY are given at **Annexure-I**.

(ii) Directorate General of Training (DGT) under the aegis of MSDE has introduced 29 new age /future skills courses under Craftsmen Training Scheme in Industrial Training Institutes (ITIs) and National Skill Training Institutes (NSTIs) to provide digital training in emerging areas such as Artificial Intelligence, Mechatronics, Internet of Things, Cybersecurity, Semiconductor, etc. Details of candidates enrolled in new age/future skill courses from academic session 2018-19 to 2023-24 are given at **Annexure-II**.

(iii) In the years 2014 to 2016, two Schemes titled “National Digital Literacy Mission” (NDLM) and “Digital Saksharta Abhiyan” (DISHA) were implemented by the Government with a target to train 52.50 lakh candidates in digital literacy across the country. Under these two schemes, a total of 53.67 lakh beneficiaries were certified.

(iv) In 2017, Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA) was launched by the Government of India to promote digital literacy in rural India. The aim was to reach 6 crore rural households (one person per household) nationwide. As against 6 crore, 6.39 crore individuals were trained across the country as on March 31, 2024.

(b) & (c): With a view to adopt the best practices in the digital skill training, DGT has signed Memoranda of Understanding (MoUs) with leading IT tech companies like IBM, CISCO, Amazon Web Services (AWS), and Microsoft. These partnerships facilitate the provision of technical and professional skills training in modern technologies, including Artificial Intelligence (AI), Big Data Analytics (BDA), Blockchain, Cloud Computing, etc. This training is available through the Bharatskills portal, a central repository that supports around 23.7 lakh trainees by offering courses designed to make them industry-ready.

Additionally, the DGT in collaboration with IBM offers a 2-year Advanced Diploma (vocational) program in Information Technology, Networking, and Cloud Computing across 15 National Skill Training Institutes (NSTIs).

Also, National Skill Development Corporation under the aegis of MSDE has partnered with a number of international organizations such as AWS, Microsoft, Intel, Redhat, Pearson VUE, Boston Consulting Group (BCG), Cisco Networking Academy for providing digital courses.

ANNEXURES REFERRED TO IN REPLY TO PART (A) OF THE LOK SABHA UNSTARRED QUESTION NO. 2234 TO BE ANSWERED ON 09.12.2024 REGARDING 'DIGITAL SKILL TRAINING'

Details of candidates enrolled for the new age/future skills job roles under PMKVY :

| SI. No | Job Role Name | Trained / Oriented |
|--------|--|--------------------|
| 1. | Electric Vehicle Service Technician | 36,241 |
| 2. | Solar Pump Technician | 29,948 |
| 3. | Solar LED Technician | 27,238 |
| 4. | Telecom Technician - IoT Devices/Systems | 24,006 |
| 5. | Solar PV Installer (Suryamitra) | 20,696 |
| 6. | Electronics Machine Maintenance Executive | 19,355 |
| 7. | Technician 5G - Active Network Installation | 15,325 |
| 8. | Drone Service Technician | 13,104 |
| 9. | Battery System Repair Technician | 9,613 |
| 10. | Application Developer - Web & Mobile | 9,039 |
| 11. | Electronic Hardware Assembly Operator | 8,660 |
| 12. | Drone Manufacturing and Assembly Technician | 6,540 |
| 13. | Additive Manufacturing (3D Printing) | 6,282 |
| 14. | Database Administrator | 4,736 |
| 15. | Solar Lighting Assembler (Elective: Home Lighting System/ Street Lights) | 4,735 |
| 16. | Solar PV Installer - Electrical | 3,910 |
| 17. | AI - Data Quality Analyst | 3,642 |
| 18. | IoT - Solution Architect | 3,492 |
| 19. | Mechanical Engineering and Plumbing General Manager | 3,205 |
| 20. | Kisan Drone Operator | 2,909 |
| 21. | Bioinformatics Scientist | 2,610 |
| 22. | IoT Hardware Analyst | 2,227 |
| 23. | AI - Machine Learning Engineer | 2,135 |
| 24. | Cloud Application Developer | 2,001 |
| 25. | Telecom Rigger - 5G and Legacy Networks | 1,905 |
| 26. | Solar PV Designer | 1,896 |
| 27. | Telecom E-Waste Handler | 1,866 |
| 28. | AI - Data Scientist | 1,796 |
| 29. | Solar PV Maintenance Technician - Electrical (Ground Mount) | 1,784 |
| 30. | Solar Photovoltaic Entrepreneur | 1,670 |
| 31. | Bioinformatics Associate/ Analyst | 1,622 |
| 32. | IoT - Software Analyst | 1,538 |
| 33. | Solar PV Project Helper | 1,448 |
| 34. | Battery System Assembly Operator | 1,447 |
| 35. | Infrastructure Technician - 5G Networks | 1,178 |
| 36. | Building Management System Project Manager | 939 |
| 37. | AI - Business Intelligence Analyst | 883 |
| 38. | Project Engineer - 5G Networks | 875 |
| 39. | Embedded Software Engineer | 809 |
| 40. | AI - Data Engineer | 708 |
| 41. | Solar PV Business Development Executive | 626 |
| 42. | Rooftop Solar Grid Engineer | 598 |
| 43. | Motor & Controller Repairing Technician | 582 |
| 44. | Motor and Controller Design Engineer | 570 |
| 45. | Product Manager - Web & Mobile | 569 |

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|-----|---|-----------------|
| 46. | VLSI Design Engineer | 550 |
| 47. | DevOps Engineer | 542 |
| 48. | Electric Vehicle Maintenance Technician | 524 |
| 49. | AR/VR Support Analyst | 494 |
| 50. | AI - Data Architect | 475 |
| 51. | Solar PV Installer - Civil | 433 |
| 52. | Cloud Administrator | 429 |
| 53. | Battery System Design Engineer | 380 |
| 54. | Solar Proposal Evaluation Specialist | 360 |
| 55. | Embedded Full-Stack IoT Analyst | 350 |
| 56. | Electric Vehicle Assembly Technician | 319 |
| 57. | Electric Vehicle Quality Control Inspector | 300 |
| 58. | Electric Vehicle Assembly Operator | 300 |
| 59. | Cloud Security Analyst | 300 |
| 60. | Solar PV Manufacturing Technician | 279 |
| 61. | Mobile Device Management Analyst | 260 |
| 62. | IoT - Product Manager | 258 |
| 63. | Automotive IIOT Application Technician | 253 |
| 64. | Automotive Automation and Robotics Engineer | 244 |
| 65. | AI - Solution Architect | 241 |
| 66. | Application Architect - Web & Mobile | 238 |
| 67. | Electric Vehicle Test Engineer | 231 |
| 68. | Solar PV Project Manager (E&C) | 187 |
| 69. | Automotive Additive Manufacturing Operator | 180 |
| 70. | IoT - Test Analyst | 180 |
| 71. | AR/VR Consultant | 177 |
| 72. | Cloud Consultant | 168 |
| 73. | User Experience Designer | 163 |
| 74. | O&M Electrical & Instrumentation Technician- Wind Power Plant | 160 |
| 75. | IoT - Domain Specialist | 157 |
| 76. | Information and Communication Technology (ICT) Engineer - 5G Networks | 150 |
| 77. | Small Hydro Power Plant Technician-(Jal Urja Mitra) | 150 |
| 78. | IoT - Network Specialist | 146 |
| 79. | IoT - Security Specialist | 129 |
| 80. | Electric Vehicle Product Design Engineer | 115 |
| 81. | Embedded Product Design Engineer-Technical Lead | 90 |
| 82. | Security Analyst | 89 |
| 83. | Automotive IIOT Application Engineer | 80 |
| 84. | Mechatronics Maintenance Specialist | 75 |
| 85. | Analyst Security Operations Centre | 73 |
| 86. | Consultant Network Security | 60 |
| 87. | Cloud Infrastructure Analyst | 42 |
| 88. | Mechatronics Designer and System Integrator | 30 |
| 89. | Automotive Additive Manufacturing Technician | 30 |
| 90. | Analyst Application Security | 30 |
| 91. | Electric Vehicle Service Lead Technician | 30 |
| | Total | 2,97,409 |

Annexure-II

Details of candidates enrolled in new age/future skill courses from academic session 2018-19 to 2023-24 in ITIs under CTS:

| Sr. No | Name of Trade | No. of enrolled candidates during 2018-19 to 2023-24 |
|--------------|---|--|
| 1. | 5G Network Technician | -- |
| 2. | Additive Manufacturing Technician (3D Printing) | 272 |
| 3. | Advanced CNC Machining Technician | 5446 |
| 4. | Aeronautical Structure and Equipment Fitter | 178 |
| 5. | AI Programming Assistant | -- |
| 6. | Artisan Using Advanced Tool | 140 |
| 7. | Basic Designer & Virtual Verifier | 755 |
| 8. | Computer Aided Manufacturing (Cam) Programmer | -- |
| 9. | Cyber Security Assistant | -- |
| 10. | Data Annotation Assistant | -- |
| 11. | Drone Pilot (Junior) | 305 |
| 12. | Drone Technician | 250 |
| 13. | Fiber to Home Technician | -- |
| 14. | Geo Informatics Assistant | 301 |
| 15. | Industrial Robotics and Digital Manufacturing | 5223 |
| 16. | Information Technology | 2766 |
| 17. | Internet of Things Technician (Smart Agriculture) | 503 |
| 18. | Internet of Things Technician (Smart City) | 755 |
| 19. | Internet of Things Technician (Smart Healthcare) | 588 |
| 20. | Manufacturing Process Control & Automation | 1583 |
| 21. | Mechanic Electric Vehicle | 8841 |
| 22. | Multimedia, Animation & Special Effects | 1863 |
| 23. | Semiconductor Technician | -- |
| 24. | Small Hydro Power Plant Technician | -- |
| 25. | Smartphone Technician Cum App Tester | 717 |
| 26. | Software Testing Assistant | -- |
| 27. | Solar Technician (Electrical) | 4093 |
| 28. | Technician Mechatronics | 1390 |
| 29. | Wind Plant Technician | -- |
| Total | | 35,969 |
