

GOVERNMENT OF INDIA  
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 3028**  
ANSWERED ON 20.03.2023

**PROJECT STRIVE**

3028: SHRI RANJEETSINGH NAIK NIMBALKAR: SHRI DEVJI M, PATEL: SHRI DILIP SAIKIA

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to State?

- (a) whether the students are getting less interested to Industrial Training Institutes (ITIs) due to gap between the requirements of industries and education and training being imparted in ITIs despite the World Bank assisted five years project 'STRIVE' launched with the purpose of improving the relevance and efficiency of skill training being imparted in ITIs;
- (b) the year-wise total number of seats available in Government and private ITIs in the country including Rajasthan, Maharashtra and North East and the number of seats out of them lying vacant; and
- (c) the steps taken by the Government to make the ITI system responsive towards the requirements of industries and to increase the interest of the students to these courses?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI RAJEEV CHANDRASEKHAR)

(a) No Sir, the Industrial Training Institutes are the backbone of the skilling eco-system in the country since long. As on date, about 25 lakh students are enrolled in the Industrial Training Institutes (ITIs) all over the country. The DGT constantly upgrades the course content and course curriculum for teaching in the ITIs as per Industry requirements. As on date 152 courses are being offered for the ITIs to take up for teaching. A list of these courses is given as **Annexure A**.

Several new age courses catering to the requirement of Industry 4.0, have also been introduced. An illustrative list of such courses is given as **Annexure B**.

(b) Skills Strengthening for Industrial Value Enhancement (STRIVE) is a World Bank assisted project which aims to upgrade and enhance the learning infrastructure in the ITIs. 500 ITIs have been covered under this project and the infrastructure for training equipment, tools and other machinery is being upgraded. The project has been successful and the enrolment in these ITIs has increased by 16% despite the challenges faced by ITIs during the COVID pandemic.

The year-wise and state-wise number of available seats and the actual enrolment for ITIs funded under STRIVE project is given in **Annexure C**.

(c) To improve the industry connect for the trainees, an initiative called 'Dual System of Training' (DST) has been introduced in Directorate General of Training (DGT). This initiative aims to provide practical training to ITI students in the industry itself. For this MoUs are signed between the ITIs and Industry partners wherein ITI students get their trade theory training in the Institute (ITI) and practical training of 6 to 9 months is provided in the industry. The number of ITIs implementing this scheme has increased from 81 in 2018 to 978 in 2022. This system further enables the trainees to get hands on training about working in the industry and also have knowledge of latest tools, equipment and technology used in the industry.

The STRIVE project is also working towards strengthening about 100 Industry Clusters (ICs) for promotion of apprenticeship training. Further, the ITIs selected under the STRIVE project have an Institute Management Committee (IMC) which is chaired by senior members of the local industry. On the Job Training is also provided under the STRIVE project and a portion of the fund under STRIVE project is earmarked for 'on the job' training. Also, upgradation of Teaching and Learning Equipment has been done under the program which includes procurement of new machines, introduction of new trades, thereby making the ITI system more responsive towards the requirement of the industries and to increase student interest towards skill training.

**Annexure - A**

**List of Courses offered under Craftsmen Training Scheme (CTS)**

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
1	Aerospace & Aviation	Remotely Piloted Aircraft (RPA)/Drone Pilot	3	6 Months (600 Hr.)
2	Aerospace & Aviation	Drone Technician	3	6 Months (600 Hr.)
3	Agriculture	Floriculture & Landscaping	3	One year (1200 Hr.)
4	Agriculture	Horticulture	3	One year (1200 Hr.)
5	Agriculture	Soil Testing and Crop Technician	3	One year (1200 Hr.)
6	Apparel	Computer Aided Embroidery & Designing	4	One year (1200 Hr.)
7	Apparel	Cutting & Sewing (VI & OD)	3	One year (1200 Hr.)
8	Apparel	Dress Making	3	One year (1200 Hr.)
9	Apparel	Fashion Design and Technology	3	One year (1200 Hr.)
10	Apparel	Sewing Technology	3	One year (1200 Hr.)
11	Apparel	Surface Ornamentation Techniques (Embroidery)	3	One year (1200 Hr.)
12	Automotive	Driver cum Mechanic	3	6 Months (600 Hr.)
13	Automotive	Mechanic Agricultural Machinery	4	Two Years (2400Hr.)
14	Automotive	Mechanic Auto Body Painting	3	One year (1200 Hr.)
15	Automotive	Mechanic Auto Body Repair	3	One year (1200 Hr.)
16	Automotive	Mechanic Auto Electrical and Electronics	3	One year (1200 Hr.)
17	Automotive	Mechanic Diesel	3	One year (1200 Hr.)
18	Automotive	Mechanic Motor Vehicle (MMV)	4	Two Years (2400 Hr.)
19	Automotive	Mechanic Tractor	3	One year (1200 Hr.)
20	Automotive	Mechanic Two and Three Wheeler	3	One year (1200 Hr.)
21	Automotive	Pump Operator Cum Mechanic	3	One year (1200 Hr.)

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
22	Automotive	Mechanic Electric Vehicle	4	Two Years (2400 Hr.)
23	Beauty & Wellness	Cosmetology	3	One year (1200 Hr.)
24	Beauty & Wellness	Hair & Skin Care (VI)	3	One year (1200 Hr.)
25	Beauty & Wellness	Spa Therapy	3	One year (1200 Hr.)
26	BFSI (Banking, Finance Service & Insurance)	Finance Executive	3	One year (1200 Hr.)
27	Capital Goods & Manufacturing	Additive Manufacturing Technician (3D Printing)	3	One year (1200 Hr.)
28	Capital Goods & Manufacturing	Marine Engine Fitter	3	One year (1200 Hr.)
29	Capital Goods & Manufacturing	Marine Fitter	4	Two Years (2400 Hr.)
30	Capital Goods & Manufacturing	Mechanic Machine Tool Maintenance	4	Two Years (2400 Hr.)
31	Capital Goods & Manufacturing	Operator Advance Machine Tool	4	Two Years (2400 Hr.)
32	Capital Goods & Manufacturing	Central Air Condition Plant Mechanic	4	Two Years (2400 Hr.)
33	Capital Goods & Manufacturing	Draughtsman Mechanical	4	Two Years (2400 Hr.)
34	Capital Goods & Manufacturing	Fitter	4	Two Years (2400 Hr.)
35	Capital Goods & Manufacturing	Foundryman	3	One year (1200 Hr.)
36	Capital Goods & Manufacturing	Metal Cutting Attendant (VI)	3	Two Years (2400 Hr.)
37	Capital Goods & Manufacturing	Machinist	4	Two Years (2400 Hr.)

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
38	Capital Goods & Manufacturing	Machinist Grinder	4	Two Years (2400 Hr.)
39	Capital Goods & Manufacturing	Sheet Metal Worker	3	One year (1200 Hr.)
40	Capital Goods & Manufacturing	Tool & Die Maker (Dies & Moulds)	4	Two Years (2400 Hr.)
41	Capital Goods & Manufacturing	Tool & Die Maker (Press Tools, Jigs & Fixtures)	4	Two Years (2400 Hr.)
42	Capital Goods & Manufacturing	Turner	4	Two Years (2400 Hr.)
43	Capital Goods & Manufacturing	Welder	3	One year (1200 Hr.)
44	Capital Goods & Manufacturing	Welder (Fabrication & Fitting)	3	One year (1200 Hr.)
45	Capital Goods & Manufacturing	Welder (GMAW & GTAW)	3	One year (1200 Hr.)
46	Capital Goods & Manufacturing	Welder (Pipe)	3	One year (1200 Hr.)
47	Capital Goods & Manufacturing	Welder (Structural)	3	One year (1200 Hr.)
48	Capital Goods & Manufacturing	Welder (Welding & Inspection)	3	One year (1200 Hr.)
49	Capital Goods & Manufacturing	Refrigeration and Air Conditioner Technician	4	Two Years (2400 Hr.)
50	Capital Goods & Manufacturing	Refractory Technician	4	Two Years (2400 Hr.)
51	Capital Goods & Manufacturing	Mechanic Mining Machinery	4	Two Years (2400 Hr.)

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
52	Capital Goods & Manufacturing	Mechanic Lens/Prism Grinding	3	One year (1200 Hr.)
53	Capital Goods & Manufacturing	Vessel Navigator	4	Two Years (2400 Hr.)
54	Capital Goods & Manufacturing	Textile Mechatronics	4	Two Years (2400 Hr.)
55	Capital Goods & Manufacturing	Aeronautical Structure and Equipment Fitter	4	Two Years (2400 Hr.)
56	Capital Goods & Manufacturing	Technician Mechatronics	4	Two Years (2400 Hr.)
57	Capital Goods & Manufacturing	Artisan Using Advanced Tool	3	One year (1200 Hr.)
58	Capital Goods & Manufacturing	Basic Designer and Virtual Verifier (Mechanical)	4	Two Years (2400 Hr.)
59	Capital Goods & Manufacturing	Industrial Robotics & Digital Manufacturing Technician	3	One year (1200 Hr.)
60	Capital Goods & Manufacturing	Manufacturing Process Control and Automation	3	One year (1200 Hr.)
61	Capital Goods & Manufacturing	Advanced CNC Machining	4	Two Years (2400 Hr.)
62	Chemicals & Petrochemicals	Attendant Operator (Chemical Plant)	4	Two Years (2400 Hr.)
63	Chemicals & Petrochemicals	Instrument Mechanic (Chemical Plant)	4	Two Years (2400 Hr.)
64	Chemicals & Petrochemicals	Laboratory Assistant (Chemical Plant)	4	Two Years (2400 Hr.)
65	Chemicals & Petrochemicals	Maintenance Mechanic (Chemical Plant)	4	Two Years (2400 Hr.)
66	Chemicals & Petrochemicals	Plastic Processing Operator	3	One year (1200 Hr.)
67	Chemicals & Petrochemicals	Electroplater	4	Two Years (2400 Hr.)
68	Construction	Architectural Draughtsman	4	Two Years (2400 Hr.)

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
69	Construction	Carpenter	3	One year (1200 Hr.)
70	Construction	Civil Engineering Assistant	4	Two Years (2400 Hr.)
71	Construction	Domestic Painter	3	One year (1200 Hr.)
72	Construction	Draughtsman (Civil)	4	Two Years (2400 Hr.)
73	Construction	Industrial Painter	3	One year (1200 Hr.)
74	Construction	Interior Design & Decoration	3	One year (1200 Hr.)
75	Construction	Mason (Building Constructor)	3	One year (1200 Hr.)
76	Construction	Painter (General)	4	Two Years (2400 Hr.)
77	Construction	Surveyor	4	Two Years (2400 Hr.)
78	Education, Training & Research	Early Childhood Educator	3	One year (1200 Hr.)
79	Electronics & Hardware	Technician Electronics System Design and Repair	4	Two Years (2400 Hr.)
80	Electronics & HW	Electronics Mechanic	4	Two Years (2400 Hr.)
81	Electronics & HW	Instrument Mechanic	4	Two Years (2400 Hr.)
82	Electronics & HW	Mechanic Consumer Electronic Appliances	4	Two Years (2400 Hr.)
83	Electronics & HW	Smartphone Technician Cum App Tester	3	6 Months (600 Hr.)
84	Electronics & HW	Technician Power Electronics Systems	4	Two Years (2400 Hr.)
85	Electronics & HW	Technician Medical Electronics	4	Two Years (2400 Hr.)
86	Environmental Science	Solar Technician (Electrical)	3	One year (1200 Hr.)
87	Food Industry	Baker & Confectioner	3	One year (1200 Hr.)
88	Food Industry	Dairying	3	One year (1200 Hr.)
89	Food Industry	Agro Processing	3	One year (1200 Hr.)

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
90	Food Industry	Food Beverages	3	One year (1200 Hr.)
91	Food Industry	Fruits and Vegetables Processing	3	One year (1200 Hr.)
92	Food Industry	Milk and Milk Product Technician	3	One year (1200 Hr.)
93	Food Industry	Food Production (General)	3	One year (1200 Hr.)
94	Food Industry	Honey Processing Technician	3	6 Months (600 Hr.)
95	Handicrafts & Carpets	Bamboo Works	3	One year (1200 Hr.)
96	Health Care	Health, Safety and Environment	3	One year (1200 Hr.)
97	Healthcare	Radiology Technician	4	Two Years (2400 Hr.)
98	Healthcare	Dental Laboratory Equipment Technician	4	Two Years (2400 Hr.)
99	Healthcare	Health Sanitary Inspector	3	One year (1200 Hr.)
100	Healthcare	Physiotherapy Technician	3	One year (1200 Hr.)
101	Healthcare	Geriatric (Old Age) Care	3	One year (1200 Hr.)
102	IT / ITeS	IoT Technician (Smart Agriculture)	3	One year (1200 Hr.)
103	IT / ITeS	IoT Technician (Smart City)	3	One year (1200 Hr.)
104	IT / ITeS	IoT Technician (Smart Health Care)	3	One year (1200 Hr.)
105	IT / ITeS	Data Entry Operator	3	6 Months (600 Hr.)
106	IT / ITeS	Information & Communication Technology System Maintenance	4	Two Years (2400 Hr.)
107	IT / ITeS	Information Technology Support Executive	4	Two Years (2400 Hr.)
108	IT / ITeS	Geo-Informatics Assistant	4	One year (1200 Hr.)
109	IT / ITeS	Computer Hardware & Network Maintenance	3	One year (1200 Hr.)
110	IT / ITeS	Computer Operator and Programming Assistant (COPA)	3	One year (1200 Hr.)
111	IT / ITeS	Computer Operator and Programming Assistant (VI & OD)	3	One year (1200 Hr.)
112	IT / ITeS	Database System Assistant	4	One year (1200 Hr.)



<b>S.n o</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
113	IT / ITeS	Desktop Publishing Operator	3	One year (1200 Hr.)
114	IT / ITeS	Multimedia, Animation & Special Effects	3	One year (1200 Hr.)
115	IT / ITeS	Software Testing Assistant	4	One year (1200 Hr.)
116	IT / ITeS	Desktop Publishing Operator (VI)	3	One year (1200 Hr.)
117	Leather	Footwear Maker	3	One year (1200 Hr.)
118	Leather	Leather Goods Maker	3	One year (1200 Hr.)
119	Logistics	In Plant Logistics Assistant	3	One year (1200 Hr.)
120	Logistics	Warehouse Technician	3	One year (1200 Hr.)
121	Media & Entertainment	Digital Photographer	3	One year (1200 Hr.)
122	Media & Entertainment	Photographer	3	One year (1200 Hr.)
123	Media & Entertainment	Video Cameraman	3	One year (1200 Hr.)
124	Mining	Stone Mining Machine Operator	3	One year (1200 Hr.)
125	Mining	Stone Processing Machine Operator	3	One year (1200 Hr.)
126	Office Administration & Facility Management	Marketing Executive	3	One year (1200 Hr.)
127	Office Administration & Facility Management	Secretarial Practice (English)	3	One year (1200 Hr.)
128	Office Administration & Facility Management	Human Resource Executive	3	One year (1200 Hr.)
129	Office Administration & Facility Management	Stenographer Secretarial Assistant (English)	3	One year (1200 Hr.)
130	Office Administration	Stenographer Secretarial Assistant (Hindi)	3	One year (1200 Hr.)

S.no	Sector Name	Trade Name	NSQF level	Duration
	& Facility Management			
131	Plumbing	Plumber	3	One year (1200 Hr.)
132	Power	Electrician Power Distribution	4	Two Years (2400 Hr.)
133	Power	Electrician	4	Two Years (2400 Hr.)
134	Power	Wireman	4	Two Years (2400 Hr.)
135	Power	Lift and Escalator Mechanic	4	Two Years (2400 Hr.)
136	Power	Small Hydro Power Plant Technician	4	Two Years (2400 Hr.)
137	Power	Wind Plant Technician	4	Two Years (2400 Hr.)
138	Private Security	Fireman	3	6 Months (600 Hr.)
139	Rubber Industry	Rubber Technician	3	One year (1200 Hr.)
140	Safety & Security	Fire Technology and Industrial Safety Management	3	One year (1200 Hr.)
141	Telecom	Fiber To Home Technician	3	6 Months (600 Hr.)
142	Textile & Handloom	Spinning Technician	4	Two Years (2400 Hr.)
143	Textile & Handloom	Textile Wet Processing Technician	4	Two Years (2400 Hr.)
144	Textile & Handloom	Weaving Technician	4	Two Years (2400 Hr.)
145	Textile & Handloom	Weaving Technician for Silk & Woolen Fabrics	3	One year (1200 Hr.)
146	Tourism & Hospitality	Food and Beverage Service Assistant	3	One year (1200 Hr.)
147	Tourism & Hospitality	Front Office Assistant	3	One year (1200 Hr.)
148	Tourism & Hospitality	Catering & Hospitality Assistant	3	One year (1200 Hr.)
149	Tourism & Hospitality	Hospital Housekeeping	3	One year (1200 Hr.)
150	Tourism & Hospitality	Housekeeper	3	One year (1200 Hr.)
151	Tourism & Hospitality	Tourist Guide	3	One year (1200 Hr.)
152	Tourism & Hospitality	Travel & Tour Assistant	3	One year (1200 Hr.)

**Annexure - B****List of New Age Courses**

<b>S.no</b>	<b>Sector Name</b>	<b>Trade Name</b>	<b>NSQF level</b>	<b>Duration</b>
1	Aerospace & Aviation	Remotely Piloted Aircraft (RPA)/Drone Pilot	3	6 Months (600 Hr.)
2	Aerospace & Aviation	Drone Technician	3	6 Months (600 Hr.)
3	Automotive	Mechanic Electric Vehicle	4	Two Years (2400 Hr.)
4	Capital Goods & Manufacturing	Additive Manufacturing Technician (3D Printing)	3	One year (1200 Hr.)
5	Capital Goods & Manufacturing	Industrial Robotics & Digital Manufacturing Technician	3	One year (1200 Hr.)
6	Environmental Science	Solar Technician (Electrical)	3	One year (1200 Hr.)
7	Electronics & HW	Smartphone Technician Cum App Tester	3	6 Months (600 Hr.)
8	IT & ITES	IoT Technician (Smart Agriculture)	3	One year (1200 Hr.)
9	IT & ITES	IoT Technician (Smart City)	3	One year (1200 Hr.)
10	IT & ITES	IoT Technician (Smart Health Care)	3	One year (1200 Hr.)
11	IT-ITeS	Geo-Informatics Assistant	4	One year (1200 Hr.)

**Annexure - C**

**State wise and year wise Seat Utilization data for ITIs funded under STRIVE**

<b>State/UT</b>	<b>No. of Govt. ITIs under STRIVE</b>	<b>No. of Private ITIs under STRIVE</b>	<b>Seats Available (2021-22)</b>	<b>Total Enrolments (2021-22)</b>	<b>Seats Available (2022-23)</b>	<b>Total Enrolments (2022-23)</b>
Andaman and Nicobar Islands	1	-	320	318	336	288
Andhra Pradesh	15	-	5,988	3,883	6,068	4,503
Arunachal Pradesh	1	-	300	64	324	99
Assam	6	2	3,536	1,715	3,536	1,680
Bihar	4	-	3,832	2,011	4,028	2,143
Chandigarh	1	-	628	494	536	466
Chhattisgarh	13	4	5,076	3,772	5,292	3,571
Delhi	3	1	2,704	1,521	2,620	1,595
Goa	2	-	1,132	521	1,132	526
Gujarat	34	4	20,224	13,286	19,948	13,339
Haryana	21	-	12,148	8,137	12,096	8,523
Himachal Pradesh	31	1	13,052	7,482	13,868	8,760
Jammu And Kashmir	7	-	2,076	1,632	2,128	1,572
Jharkhand	3	-	1,588	957	1,516	1,040
Karnataka	21	1	11,748	3,984	10,632	4,420
Kerala	23	2	16,408	13,363	16,976	13,627
Madhya Pradesh	20	1	8,584	4,755	9,072	5,376
Maharashtra	72	4	71,032	34,277	70,532	35,960
Manipur	2	-	1,048	108	1,068	105
Meghalaya	1	-	176	136	196	150
Mizoram	1	-	540	201	560	257
Nagaland	1	-	72	61	68	57
Odisha	25	2	19,164	13,488	18,704	14,085

State/UT	No. of Govt. ITIs under STRIVE	No. of Private ITIs under STRIVE	Seats Available (2021-22)	Total Enrolments (2021-22)	Seats Available (2022-23)	Total Enrolments (2022-23)
Puducherry	2	-	196	73	268	95
Punjab	23	1	13,420	7,726	15,124	7,448
Rajasthan	14	-	5,996	3,969	6,416	4,089
Sikkim	1	-	336	119	424	219
Tamil Nadu	29	3	17,056	9,959	17,020	11,640
Telangana	17	-	4,752	2,719	5,020	2,808
Tripura	8	-	1,712	838	2,100	1,181
Uttar Pradesh	25	4	17,664	12,054	17,476	12,092
Uttarakhand	8	-	1,464	840	1,524	897
West Bengal	26	2	12,868	5,625	14,968	7,051
<b>Total</b>	<b>461</b>	<b>32</b>	<b>276,840</b>	<b>160,088</b>	<b>281,576</b>	<b>169,662</b>

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