

## TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING REFORMS IN HIMACHAL PRADESH

### I. INTRODUCTION

1. Industrial training institutes (ITIs) and polytechnics form the backbone of India's technical and vocational education and training (TVET) system. As of 1 January 2017, there were 13,351 ITIs across India with a total intake capacity of 2,850,734 trainees. Of these ITIs, 2,150 were under government control while 11,201 were run by private partners. The ITIs impart training in 126 trades including 73 engineering, 48 nonengineering trades, and five trades meant exclusively for visually impaired students. These courses, which are usually 1–2 years in duration, fall under the purview of Craftsmen Training Scheme or Modular Employability Scheme, as prescribed by the Directorate General of Training, Ministry of Skill Development and Entrepreneurship, Government of India.

2. A class X certificate is the basic minimum requirement for admission into an ITI. Upon successful completion of training, an ITI graduate is awarded a National Trades Certificate (NTC) by the National Council for Vocational Training (NCVT). At the state level, it is recognized by the respective State Council for Vocational Training (SCVT).<sup>1</sup>

### II. TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING SYSTEM IN HIMACHAL PRADESH

3. In Himachal Pradesh, ITIs, polytechnics, and engineering colleges combined have an annual intake capacity of 53,926 students. ITIs account for approximately 73% of the total intake, followed by engineering colleges at 17%, and polytechnics at 10% (Table 1).

**Table 1: Annual Contribution by Various Institutes Offering Technical and Vocational Education and Training**

S. No.	Institutions	Intake
1	<b>Engineering College</b>	<b>5,624</b>
	Government	680
	Private	4,944
2	<b>Industrial Training Institute</b>	<b>39,280</b>
	Government	23,762
	Private	15,518
3	<b>Polytechnics</b>	<b>9,022</b>
	Government	1,610
	Private	5,768
	Second shift polytechnic	1,620
	Diploma in pharmacy	24
	<b>Total intake</b>	<b>53,926</b>

Source: Government of Himachal Pradesh, Department of Technical Education, Vocational and Industrial Training. [http://himachal.nic.in/index.php?lang=1anddpt\\_id=2](http://himachal.nic.in/index.php?lang=1anddpt_id=2)

<sup>1</sup> Government of India, Ministry of Skill Development and Entrepreneurship. <http://www.dget.nic.in/content/vocational-training.php>

4. Himachal Pradesh has 238 ITIs, of which 103 are government-owned and 135 are privately owned.<sup>2</sup> The total annual intake capacity of these ITIs is around 39,000, with government it is accounting for 60% of the seats. The utilization percentage (i.e., enrolled students as a share of available seats) of these ITIs is 64.1%, which is lower than the average utilization percentage of 70% across India (footnote 2). Nine of the government ITIs are exclusively for female trainees.

5. Of the 36 polytechnics in Himachal Pradesh, 13 are government-owned and 23 are privately owned. The total annual training capacity is 8,998. Currently, there is only one dedicated polytechnic for women in Kandaghat in district Solan. It offers diplomas in pharmacy, electronics and communication engineering, and computers, and has an annual training capacity of 300 with hostel accommodation for 210.

**Table 2: District-Wise Number of Government Industrial Training Institutes and Polytechnics in Himachal Pradesh**

S. No.	District	Government ITIs	Government Polytechnics
1	Bilaspur	7	1
2	Chamba	7	2
3	Hamirpur	6	1
4	Kangra	17	2
5	Kinnaur	2	0
6	Kullu	6	1
7	Lahual and Spiti	2	1
8	Mandi	16	1
9	Shimla	16	1
10	Sirmaur	8	1
11	Solan	9	1
12	Una	7	1
	<b>Total</b>	<b>103</b>	<b>13</b>

ITI = industrial training institute.

Source: Government of Himachal Pradesh, Department of Technical Education, Vocational and Industrial Training. <http://techeduhp.gov.in/>

**Table 3: Popular Trades in Himachal Pradesh**

SR No.	Trade	Number of Industrial Training Institutes
1	Computer Operator and Programming Assistant	57
2	Electrician	158
3	Electronics Mechanic	77
4	Fitter	79
5	Sewing Technology	76

Source: Government of Himachal Pradesh, Department of Technical Education, Vocational and Industrial Training.

6. In Himachal Pradesh, government ITIs impart training across 59 trades.<sup>3</sup> Training in 38 of these 59 trades is offered under the SCVT curriculum. SCVT-affiliated trades have certain shortcomings as discussed below:

- (i) While the students undergo an all-India trade test conducted by NCVT to be

<sup>2</sup> Government of India, Ministry of Skill Development and Entrepreneurship. *National Council for Vocational Training Management Information System*. <https://ncvtmis.gov.in/Pages/ITI/Search.aspx>

<sup>3</sup> Data obtained from the Government of Himachal Pradesh, Department of Technical Education, Vocational and Industrial Training.

awarded with a NTC, in the case of an SCVT-affiliated trade, the state Technical Education Board awards a successful student with an SCVT certification. Unfortunately, SCVT certificates do not enjoy the same type of national and international recognition as that enjoyed by NCVT's NTC.

- (ii) NCVT and the Quality Council of India (QCI) have been entrusted with the mandate to inspect and accredit ITIs and the training programs they offer. The accreditation process takes place separately for ITI infrastructure (i.e., training facilities and equipment) and trades. These reports are then reviewed by the NCVT subcommittee. The reaffiliation process takes place every 5 years. For SCVT trades, accreditation and inspection is conducted by the state-level technical education boards on a yearly basis.
- (iii) The curriculum of SCVT trades is prepared by the state-level Technical Education Board. These are usually not revised as regularly as NCVT curriculum. Laboratory machinery and equipment for SCVT-affiliated trades are usually obsolete and practical exposure of students may not necessarily meet industry requirements.

### III. REGULATORY DEVELOPMENTS

7. NCVT has been entrusted with the responsibility of (i) prescribing standards and curricula for the Craftsmen Training Scheme, (ii) advising the Government of India on the overall policy and programs, (iii) conducting all-India tests, (iv) awarding NTC, and (v) establishing a quality control mechanism and framework for periodically affiliating and accrediting institutions.

8. With reference to office order DGET/19/16/2012-CD dated 27 November 2013 issued by the Directorate General of Employment and Training (DGE&T),<sup>4</sup> the responsibility for accrediting government and private ITIs is vested in the National Accreditation Board for Education and Training (NABET) and the QCI. The QCI is set up jointly by the Government of India and industry associations consisting of Associated Chambers of Commerce and Industry of India, Confederation of Indian Industry, and Federation of Indian Chambers of Commerce and Industry to establish and operate the national accreditation structure and promote quality throughout the country.

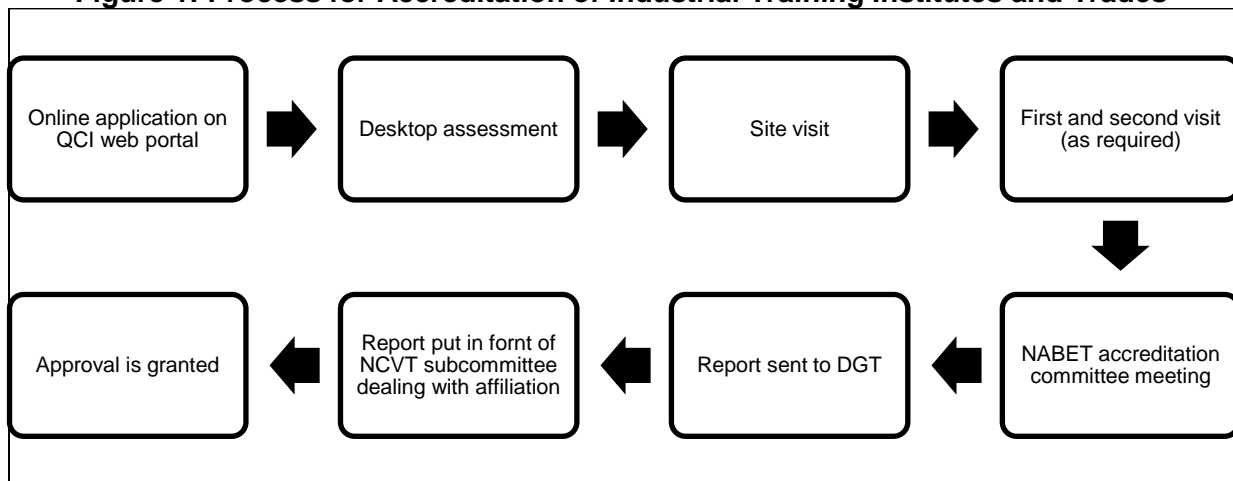
9. NABET, a constituent board of QCI, is responsible for handling the accreditation of government and private ITIs. QCI accreditation is required for the following types of ITIs:

- (i) new ITIs seeking affiliation for new trades or new units;
- (ii) existing ITIs seeking affiliation for new trades or new units;
- (iii) existing ITIs seeking affiliation after 5 years of NCVT affiliation, in line with DGET-6 / Misc / 2014-TC / 29 / 4 / 14;
- (iv) ITIs seeking only affiliation of existing trades or units;
- (v) ITIs seeking reaffiliation of existing trade or units and seeking affiliation for new trade or units; and
- (vi) ITIs seeking accreditation under DGE&T's deaffiliation order.

10. The process followed for accrediting ITIs and trades is shown in Figure 1.

<sup>4</sup> National Accreditation Board for Education and Training. [http://nabet.qci.org.in/skill\\_training/documents\\_GPITI/dsurveillance.pdf](http://nabet.qci.org.in/skill_training/documents_GPITI/dsurveillance.pdf)

**Figure 1: Process for Accreditation of Industrial Training Institutes and Trades**



DGT = Directorate General for Training, NABET = National Accreditation Board for Education and Training, NCVT = National Council for Vocational Training, QCI = Quality Council of India.

Source: Asian Development Bank.

11. Guidelines have been issued by the Directorate General of Training for reaffiliation with the following mandate:

- (i) New machinery and equipment are required for affiliation of new trades. For existing ITIs, available machinery would be accepted provided they are in working condition and in line with the latest syllabi.
- (ii) Trained instructors are required for accreditation of old and new ITIs. However, principals and instructor will be accepted during the accreditation process provided they satisfy the criteria at the time of their appointment. As far as training of instructors is concerned, the ITIs can send their staff to the advance training institutes for refresher training.
- (iii) Old buildings will be accepted for reaffiliation provided they are in line with DGET norms when they get affiliation. Where new trades are being added, the ITIs will have to constructed according to the latest norms.
- (iv) Information technology laboratories and audiovisual laboratories should be designed and built according to the existing norms.
- (v) The syllabi and curricula for the relevant trades will also have to be updated.

#### **IV. SUPPORT FOR HIMACHAL PRADESH'S TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING SYSTEM UNDER THE HIMACHAL PRADESH SKILLS DEVELOPMENT PROJECT**

12. The proposed Himachal Pradesh Skills Development Project (HPSDP) will support the Department of Technical Education, Vocational and Industrial Training (DOTE), Government of Himachal Pradesh, by providing the latest training equipment for 22 popular trades across 50 selected ITIs, in line with the 2014 NCVT Guidelines. This will ensure that nearly 19000 students, who annually enroll for these 22 trades, will now get an NCVT certificate as against an SCVT certificate. As noted earlier, an NCVT certificate has far greater national and international recognition compared to an SCVT certificate.

13. The HPSDP will also support these ITIs in preparing detailed institution development

plans so that reforms in terms of good trainers, quality trainings, and industry partnerships in the ITI systems over the next 5 years. Some of the proposed reforms under the HPSDP are:

- (i) The project will assist 50 of the 103 government ITIs of Himachal Pradesh in upgrading their equipment in line with the NCVT Guidelines, 2014.<sup>5</sup> This will ensure that nearly 19,000 students opting for these popular trades (e.g., welding, fitting, plumbing, electrical, and mechanical) will now be able to get NCVT certificates, which will make them eligible for jobs across India.
- (ii) Results-oriented institutional development plans will be prepared for these ITIs to ensure that their performance in terms of key indicators such as placement, enrolment of females, faculty training, counselling, and industry engagement improves. Targets will be set in consultation with the Department of Technical Education, Vocational and Industrial Training.<sup>6</sup>
- (iii) The faculty and instructors of these ITIs will undergo refresher trainings so that they are able to use the new equipment effectively in imparting the required skills to the trainees.
- (iv) A holistic management information system (MIS) will allow the ITIs effective tracking of trainings and maintaining trade-wise student enrollment, employment, and employer details among others. The MIS will help DOTE in continuous improvement of training quality through monitoring of some of the key indicators like drop-outs, tracking of employed trainees, gender-wise enrollment in each trade, and others.
- (v) To expand long-term TVET options for the girls of Himachal Pradesh, HPSDP will establish a polytechnic for women in Rehan District, Kangra. It will offer diplomas in programs such as civil engineering, architectural assistantship, electrical engineering, and computer engineering, which are in high demand, and improve access for the girls who reside in the hilly northern and western districts of the state.<sup>7</sup> It will have an annual training capacity of 300 and hostel capacity for 120.

**Table 4: ADB Support to Department of Technical Education, Vocational and Industrial Training, Himachal Pradesh**

S.No	ADB's Support in Affiliation Process	ITIs Supported under the Intervention
1.	New ITIs seeking affiliation for new trades and new units	Five general it is
2.	Existing institutes seeking affiliation for new trades and new units	Four existing ITIs seeking affiliation for new trades
3.	Existing institutions seeking affiliation (after 5 years of NCVT affiliation)	

<sup>5</sup> In 2014, NCVT revised the syllabi of the vocational trades offered under the Craftsman Training Scheme. The QCI, which assesses the availability and quality of training facilities in ITIs, has recommended the ITI for affiliation with NCVT. QCI has derecognized the training being imparted (for several trades) in many of the ITIs of Himachal Pradesh. Unless the required training equipment is purchased and the training facilities upgraded to the revised NCVT standards, these ITIs will not be able to offer NCVT certificates to their trainees. Without an NCVT certificate, the graduates of these ITIs will not be eligible for jobs in public sector enterprises and the large private sector companies.

<sup>6</sup> Counselling and placement cells in the ITIs will be strengthened, and linked to the proposed model career centers, which will also be supported under the project.

<sup>7</sup> Currently, Himachal Pradesh has only one polytechnic for women, located in Solan district in southern Himachal Pradesh. It has an annual training capacity of 420, and hostel accommodation for 210.

S.No	ADB's Support in Affiliation Process	ITIs Supported under the Intervention
3a.	Seeking only affiliation of existing trades or units	45 ITIs
3b.	Seeking reaffiliation of existing trades or units and seeking affiliation for new trades or units	Four ITIs seeking reaffiliation of existing trades and affiliation of new trades

ITI = industrial training institute, NCVT = National Council for Vocational Training.

Note: Data refer to 50 ITIs to be covered under the Himachal Pradesh Skills Development Project.

Source: Government of Himachal Pradesh, Department of Technical Education, Vocational and Industrial Training.

14. The 41 ITIs under the ADB program have been discussed with DOTE and the respective ITI principals. Key considerations for the selection were as follows:

- (i) The ITIs covered through ADB support for upgrade should not be supported under any other donor agency-assisted scheme to avoid duplicity. World Bank support for upgrade of ITIs under VTIP projects is extended to 14 ITIs; and under the public-private partnership scheme, to 33 ITIs in Himachal Pradesh. These are not included in the ADB support.
- (ii) To improve access, the 41 ITIs have been selected from all the major districts of Himachal Pradesh and cover 10 out of the total 12 districts in the state (footnote 3).

15. Currently, training is offered in 49 NCVT and 38 SCVT trades across 103 government ITIs of Himachal Pradesh. Under HPSDP, 20 SCVT trades and 18 NCVT trades are being supported across 50 ITIs where some trades have both NCVT and SCVT trade affiliations. See **Appendix 2** (footnote 3).

16. The annual intake capacity across the 103 government ITIs is 23,762 students; 17,825 students under NCVT and 5,937 students under SCVT. Under ADB's support to 50 ITIs, 2715 students per year under NCVT-affiliated trades, and 2,432 students per year under SCVT affiliated trades, will be exposed to new, industry-ready laboratory equipment and facilities and improved pedagogy (footnote 3).

**Table 4: Number of Trainees to Benefit under the Himachal Pradesh Skills Development Project**

S. No.	Trade Affiliation	Students Covered per Year under ADB Support	Estimated Students to be Benefited in 4 Years Starting 2017/2018
1.	NCVT (reaffiliation)	2,715	10,860
2.	SCVT to NCVT	2,432	9,728
<b>Total students covered</b>			<b>20,588<sup>a</sup> (5,147 per year)</b>

ADB = Asian Development Bank, NCVT = National Council for Vocational Training, SCVT = State Council for Vocational Training.

<sup>a</sup> Estimated at current utilization levels with no capacity augmentation in existing colleges.

Note: Data is for 41 ITIs under advance procurement and based on the assumption of 100% utilization of ITI.

Source: Asian Development Bank.

17. Additionally, around 300 new students per year will be exposed to new industry-ready laboratory equipment and facilities in the nine new ITIs to be established by the state government over the next 4 years.

## V. SUSTAINABILITY PLAN

18. To ensure that the institutional delivery mechanisms are sustained over time, all the ITIs will develop an Institutional Delivery and Quality Improvement Plan. The plan will detail the following:

- (i) well-defined operation and maintenance procedures for new equipment;
- (ii) comprehensive training program for ITI faculty and instructors so that they are able to use the new equipment effectively for training the students;
- (iii) measures to strengthen institute management committees in ITIs;
- (iv) industry partnerships by way of a memorandum of agreement with industry partners on trainers, apprentice, on-the-job training, and placements;
- (v) well-defined indicators to measure productivity of students arising from improved laboratory equipment;
- (vi) management information system to monitor progress of institutional delivery and quality improvement plan; and
- (vii) others as may be required.

**APPENDIX 1: INDUSTRIAL TRAINING INSTITUTES TO BE SUPPORTED UNDER THE HIMACHAL PRADESH SKILLS DEVELOPMENT PROJECT**

<b>SR No.</b>	<b>District</b>	<b>Name of Industrial Training Institute</b>
1	Bilaspur	Government ITI, Ghumarwin
2	Bilaspur	Government ITI, Bharari (Women)
3	Bilaspur	Government ITI, Swarghat
4	Bilaspur	Government ITI, Shri Naina Devi Ji
5	Chamba	Government ITI, Garnota
6	Chamba	Government ITI, Chhatrari
7	Chamba	Government ITI, Lachori
8	Hamirpur	Government ITI, Lambloo
9	Hamirpur	Government ITI, Sujampur-Tihra
10	Kangra	Government ITI, Baijnath
11	Kangra	Government ITI, Baroh
12	Kangra	Government ITI, Dadasiba
13	Kangra	Government ITI, Daulatpur
14	Kangra	Government ITI, Garhjamula
15	Kangra	Government ITI, Nagrota- Bagwan
16	Kangra	Government ITI, Talwar at Lahru
17	Kangra	Government ITI, Gangath
18	Kullu	Government ITI, Manali at Patlikulh
19	Kullu	Government ITI, Nirmand
20	Mandi	Government ITI, Balh at Nerchowk
21	Mandi	Government ITI, Mohin
22	Mandi	Government ITI, Thalout
23	Mandi	Government ITI, Bhadrota
24	Shimla	Government ITI, Mashobra
25	Shimla	Government ITI, Junga
26	Shimla	Government ITI, Sunni
27	Shimla	Government ITI, Theog
28	Shimla	Government ITI, Jalog
29	Shimla	Government ITI, Dargi
30	Shimla	Government ITI, Chirgaon
31	Shimla	Government ITI, Nainidhar
32	Shimla	Government ITI, Kumarsain
33	Shimla	Government ITI, Khandhan
34	Sirmour	Government ITI, Maina
35	Sirmour	Government ITI, Kaffota
36	Solan	Government ITI, Krishangarh (Kuthar)
37	Solan	Government ITI, Syri
38	Una	Government ITI, Pubowal
39	Una	Government ITI, Gagret at Bhaderkali
40	Una	Government ITI, Santoshgarh
41	Una	Government ITI, Chintpurni at Nehrian
<b>New ITIs</b>		
1	Chamba	Government ITI, Bharmour
2	Chamba	Government ITI, Tissa at Koti
3	Sirmour	Government ITI, Sarahan
4	Mandi	Government ITI, Karsog
5	Mandi	Government ITI, Sandhole
6	Mandi	Government ITI, Padhar
7	Shimla	Government ITI, Tikkar
8	Shimla	Government ITI, Pragtinagar
9	Solan	Government ITI, Arki

ITI = industrial training institute.

Source: Department of Technical Education, Vocational and Industrial Training.





ITI Name	Trade Name	Duration	Shift	NCVT /SCVT	Year	Intake	NCVT	SCVT
<b>Government ITI, Baijnath</b>	Electrician	4 sem	1	NCVT	2016	21		
	Electrician	4 sem	2	NCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	NCVT	2016	21		
	Fitter	4 sem	1	SCVT	2016	21		
	Fitter	4 sem	2	SCVT	2016	21		
	Welder	2 sem	1	SCVT	2016	21		
	Welder	2 sem	2	SCVT	2016	21	84	84
<b>Government ITI, Nagrota Bagwan</b>	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		
	Fitter	4 sem	1	SCVT	2015	21		
	Fitter	4 sem	2	SCVT	2015	21		
	Draughtsman (Civil)	4 sem	1	SCVT	2015	26		
	Draughtsman (Civil)	4 sem	2	SCVT	2015	26		136
<b>Government ITI, Dadasiba</b>	Electrician	4 sem	1	NCVT	2015	21		
	Electrician	4 sem	2	NCVT	2015	21		
	Electronics Mechanic	4 sem	1	NCVT	2015	26		
	Electronics Mechanic	4 sem	2	NCVT	2015	26		
	Fitter	4 sem	1	SCVT	2015	21		
	Welder	2 sem	1	SCVT	2016	21		
	Fashion Design and Technology	2 sem	1	SCVT	2016	21	94	63
<b>Government ITI, Daulatpur</b>	Electrician	4 sem	1	SCVT	2016	21		
	Electrician	4 sem	2	SCVT	2016	21		
	Fashion Design and Technology	2 sem	1	SCVT	2016	21		
	Fashion Design and Technology	2 sem	2	SCVT	2016	21		84
<b>Government ITI, Gangath</b>	Basic Cosmetology	2 sem	1	NCVT	2016	26		
	Dress Making	2 sem	1	NCVT	2016	21		
	Welder	2 sem	1	NCVT	2016	21	68	
<b>Government ITI, Garhjamula</b>	Fashion Design and Technology	2 sem	1	NCVT	2016	21		
	Mechanic Motor Cycle	2 sem	1	NCVT	2016	21	42	
<b>Government ITI, Baroh</b>	Electrician	4 sem	1	NCVT	2015	21		
	Electrician	4 sem	2	NCVT	2015	21		
	Fitter	4 sem	1	NCVT	2015	21		
	Fitter	4 sem	2	NCVT	2015	21		
	Plumber	2 sem	1	NCVT	2016	26		
	Plumber	2 sem	2	NCVT	2016	26		
	Sewing Technology	2 sem	1	NCVT	2016	21		
	Sewing Technology	2 sem	2	NCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2015	21		
	Computer Aided Embroidery and Designing	2 sem	1	SCVT	2016	21		
	Mechanic Auto Electrical and Electronics	2 sem	1	SCVT	2016	21		
	Computer Aided Embroidery and	2 sem	2	SCVT	2016	21	178	105

ITI Name	Trade Name	Duration	Shift	NCVT /SCVT	Year	Intake	NCVT	SCVT
	Designing							
<b>Government ITI, Talwar at Lahru</b>	Plastic Processing Operator	2 sem	1	NCVT	2016	21		
	Tool and Die Maker (Dies and Moulds)	4 sem	1	NCVT		21	42	
<b>Government ITI, Manali Patlikulh</b>	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		
	Basic Cosmetology	2 sem	1	SCVT	2016	26		
	Basic Cosmetology	2 sem	2	SCVT	2016	26		
	Electrician	4 sem	1	SCVT	2016	21		
	Electrician	4 sem	2	SCVT	2015	21		136
<b>Government ITI, Nirmand</b>	Fashion Design and Technology	2 sem	1	NCVT				
	Plumber	2 sem	1	NCVT	2016	26		
	Sewing Technology	2 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		
	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21	26	105
<b>Government ITI, Balh</b>	Electrician	4 sem	1	SCVT	2016	21		
	Electrician	4 sem	2	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		84
<b>Government ITI, Thalout</b>	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	NCVT	2015	21		
	Sewing Technology	2 sem	1	NCVT	2016	21		
	Sewing Technology	2 sem	2	NCVT	2016	21		
	Electrician	4 sem	1	SCVT	2015	21		
	Surface Ornamentation Techniques (Embroidery)	2 sem	1	SCVT	2016	21	84	42
<b>Government ITI, Karsog</b>	Computer Operator and Programming Assistant	2 sem	1	NCVT	2016	26		
	Dress Making	2 sem	1	NCVT	2016	21	47	
<b>Government ITI, Padhar</b>	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		
	Draughtsman (Mechanical)	4 sem	1	SCVT	2015	26		
	Draughtsman (Mechanical)	4 sem	2	SCVT	2016	26		94
<b>Government ITI, Bhadrota</b>	Computer Operator and Programming Assistant	2 sem	1	NCVT	2016	26		
	Computer Operator and Programming Assistant	2 sem	2	NCVT	2016	26		
	Electrician	4 sem	1	NCVT	2015	21		
	Electrician	4 sem	2	NCVT	2016	21		

ITI Name	Trade Name	Duration	Shift	NCVT /SCVT	Year	Intake	NCVT	SCVT
	Fitter	4 sem	1	NCVT	2015	21		
	Fitter	4 sem	2	NCVT	2016	21		
	Sewing Technology	2 sem	1	NCVT	2016	21		
	Sewing Technology	2 sem	2	NCVT	2016	21	178	
<b>Government ITI, Sandhole</b>	Electrician	4 sem	1	NCVT	2015	21		
	Electrician	4 sem	2	NCVT	2016	21		
	Electronics Mechanic	4 sem	1	NCVT	2015	26		
	Electronics Mechanic	4 sem	2	NCVT	2016	26		
	Sewing Technology	2 sem	1	NCVT	2016	21		
	Sewing Technology	2 sem	2	NCVT	2016	21	136	
<b>Government ITI, Pragatinagar</b>	Draughtsman (Civil)	4 sem	1	NCVT	2016	26		
	Draughtsman (Civil)	4 sem	2	NCVT		26		
	Electrician	4 sem	1	NCVT	2016	21		
	Electrician	4 sem	2	NCVT	2015	21		
	Electronics Mechanic	4 sem	1	NCVT	2016	26		
	Electronics Mechanic	4 sem	2	NCVT	2015	26		
	Fitter	4 sem	1	NCVT	2015	21		
	Fitter	4 sem	2	NCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	NCVT	2015	21	230	
<b>Government ITI, Chirgaon</b>	Information Communication Technology System Maintenance	4 sem	1	NCVT	2015	26		
	Information Communication Technology System Maintenance	4 sem	2	NCVT	2016	26		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21	73	
<b>Government ITI, Dargi</b>	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2015	21		
	Plumber	2 sem	1	SCVT	2016	26		
	Plumber	2 sem	2	SCVT	2016	26		94
<b>Government ITI, Jalog</b>	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		
	Fitter	4 sem	1	SCVT	2015	21		
	Fitter	4 sem	2	SCVT	2016	21		84
<b>Government ITI, Theog</b>	Electrician	4 sem	1	NCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21		
	Sewing Technology	2 sem	1	NCVT	2016	21		
	Electrician	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Fitter	2 sem	1	SCVT	2016	21		
	Sewing Technology	2 sem	2	SCVT	2016	21	63	84
<b>Government ITI, Khadhan</b>	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		
	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		84

ITI Name	Trade Name	Duration	Shift	NCVT /SCVT	Year	Intake	NCVT	SCVT
<b>Government ITI, Sunni</b>	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2015	21		
	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		
	Fashion Design and Technology	2 sem	1	SCVT	2016	21		105
<b>Government ITI, Junga</b>	Fitter	4 sem	1	NCVT	2015	21		
	Fitter	4 sem	2	NCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21		
	Electrician	4 sem	1	SCVT	2016	21		
	Electrician	4 sem	2	SCVT	2016	21	84	42
<b>Government ITI, Tikkar</b>	Electrician	4 sem	1	NCVT	2016	21		
	Electrician	4 sem	2	NCVT	2016	21		
	Electronics Mechanic	4 sem	1	NCVT	2016	21		
	Electronics Mechanic	4 sem	2	NCVT	2016	21		
	Fitter	4 sem	1	SCVT	2016	21	42	21
<b>Government ITI, Kumarsain</b>	Electrician	4 sem	1	NCVT	2016	21		
	Information Communication Technology System Maintenance	4 sem	1	NCVT	2016	26		
	Sewing Technology	2 sem	1	NCVT	2016	21	68	
<b>Government ITI, Sarahan</b>	Electronics Mechanic	4 sem	1	NCVT	2015	26		
	Fitter	4 sem	1	NCVT	2015	21	47	
<b>Government ITI, Kaffota</b>	Electronics Mechanic	4 sem	1	NCVT	2015	26		
	Plumber	2 sem	1	NCVT	2016	26	52	
<b>Government ITI, Krishangarh</b>	Data Base System Assistant	2 sem	1	SCVT	2016	26		
	Data Base System Assistant	2 sem	2	SCVT	2016	26		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		94
<b>Government ITI, Syri</b>	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		
	Fashion Design and Technology	2 sem	1	SCVT	2016	21		
	Fashion Design and Technology	2 sem	2	SCVT	2016	21		84
<b>Government ITI, Arki</b>	Computer Operator and Programming Assistant	2 sem	1	NCVT	2016	26		
	Computer Operator and Programming Assistant	2 sem	2	NCVT	2016	26		
	Computer Operator and Programming Assistant	2 sem	3	NCVT	2016	26		
	Electrician	4 sem	1	NCVT	2015	21		

ITI Name	Trade Name	Duration	Shift	NCVT /SCVT	Year	Intake	NCVT	SCVT
	Electrician	4 sem	2	NCVT	2016	21		
	Electrician	4 sem	3	NCVT	2016	21		
	Electronics Mechanic	4 sem	1	NCVT	2015	26		
	Electronics Mechanic	4 sem	2	NCVT	2016	26		
	Electronics Mechanic	4 sem	3	NCVT	2016	26		
	Digital Photographer	2 sem	1	SCVT	2016	21	219	21
<b>Government ITI, Chintpurni</b>	Dress Making	2 sem	1	NCVT	2016	21		
	Dress Making	2 sem	2	NCVT	2016	21		
	Fitter	4 sem	1	NCVT	2015	21		
	Fitter	4 sem	2	NCVT	2015	21		
	Surface Ornamentation Techniques (Embroidery)	2 sem	1	NCVT	2016	21		
	Surface Ornamentation Techniques (Embroidery)	2 sem	2	NCVT	2016	21	126	
<b>Government ITI, Gagret</b>	Electrician	4 sem	1	SCVT	2016	21		
	Electrician	4 sem	2	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2016	21		84
<b>Government ITI, Pubowal</b>	Sewing Technology	2 sem	1	SCVT	2016	21		
	Sewing Technology	2 sem	2	SCVT	2016	21		
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	2015	21		
	Mechanic (Refrigeration and Air Conditioning)	4 sem	1	SCVT	2015	26		
	Mechanic (Refrigeration and Air Conditioning)	4 sem	2	SCVT	2015	26		
	Electrician	4 sem	1	SCVT	2015	21		
	Electrician	4 sem	2	SCVT	2015	21		178
<b>Government ITI, Santoshgarh</b>	Computer Operator and Programming Assistant	2 sem	1	NCVT	2016	26		
	Computer Operator and Programming Assistant	2 sem	2	NCVT	2016	26		
	Mechanic (Motor Vehicle)	4 sem	1	NCVT	2015	21		
	Mechanic (Motor Vehicle)	4 sem	2	NCVT	2015	21		
	Tool and Die Maker (Dies and Moulds)	4 sem	1	NCVT	2015	21		
	Tool and Die Maker (Dies and Moulds)	4 sem	2	NCVT	2015	21	136	
							<b>2,715</b>	<b>2,128</b>

ITI = industrial training institute, NCVT = National Council for Vocational Training, SCVT = State Council for Vocational Training, sem = semester.

Source: Department of Technical Education, Vocational and Industrial Training.

**APPENDIX 3: INDUSTRIAL TRAINING INSTITUTES SEEKING AFFILIATION FOR  
NEW TRADES**

ITI Name	Trade Name	Duration	Shift	NCVT/SCVT	Fee Type	Year	Intake	SCVT
<b>Government ITI, Garhjamula</b>	Fitter	4 sem	1	SCVT	Subs.	2016	21	
	Fitter	4 sem	2	SCVT	Non	2016	21	
	Electrician	4 sem	1	SCVT	Subs.	2016	21	
	Electrician	4 sem	2	SCVT	Non	2016	21	
	Mechanic (Motor Vehicle)	4 sem	1	SCVT	Subs.	2016	21	
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	Non	2016	21	126
<b>Government ITI, Junga</b>	Sewing Technology	2 sem	1	SCVT	Subs.	2016	21	
	Sewing Technology	2 sem	1	SCVT	Non	2016	21	42
<b>Government ITI, Dargi</b>	Draughtsman (Civil)	4 sem	1	SCVT	Subs.	2015	26	
	Draughtsman (Civil)	4 sem	2	SCVT	Subs.	2016	26	52
<b>Government ITI, Jalog</b>	Mechanic (Motor Vehicle)	4 sem	1	SCVT	Subs.	2016	21	
	Mechanic (Motor Vehicle)	4 sem	2	SCVT	Subs.		21	
	Draughtsman (Civil)	4 sem	1	SCVT	Subs.	2016	26	
	Draughtsman (Civil)	4 sem	2	SCVT	Subs.		26	94

**502**

ITI = industrial training institute, NCVT = National Council for Vocational Training, SCVT = State Council for Vocational Training, Sem = semester, Subs = \_\_\_\_.

Source: Department of Technical Education, Vocational and Industrial Training.

**APPENDIX 4: NEW INDUSTRIAL TRAINING INSTITUTES SEEKING AFFILIATION FOR  
NEW TRADES**

ITI Name	Trade Name	Duration	Shift	NCVT/SCVT	Fee Type	Year	Intake	SCVT
<b>Government ITI, Chhatrari</b>	Electrician	4 sem	1	SCVT	Subs.	2016	21	21
<b>Government ITI, Mohin</b>	Computer Operator and Programming Assistant	2 sem	1	SCVT	Subs.	2016	26	
	Computer Operator and Programming Assistant	2 sem	2	SCVT	Non Subs.	2016	26	
	Electrician	4 sem	1	SCVT	Subs.	2016	21	
	Electrician	4 sem	2	SCVT	Non Subs.	2016	21	94
<b>Government ITI, Nainidhar</b>	Electrician	4 sem	1	SCVT	Subs.	2016	21	
	Electrician	4 sem	2	SCVT	Subs.	2016	21	
	Information Technology	4 sem	1	SCVT	Subs.	2016	26	
	Information Technology	4 sem	2	SCVT	Subs.	2016	26	94
<b>Government ITI, Mashobora</b>	Electrician	4 sem	1	SCVT	Subs.	2016	21	
	Electrician	4 sem	2	SCVT	Subs.		21	
	Turner	4 sem	1	SCVT	Subs.	2016	16	
	Turner	4 sem	2	SCVT	Subs.		16	74
<b>Government ITI, Maina</b>	Pump operator	2 sem	1	SCVT		2016	21	
	Electrician	4 sem	1	SCVT		2016	21	42
								<b>304</b>

ITI = industrial training institute, NCVT = National Council for Vocational Training, SCVT = State Council for Vocational Training, Sem = semester, Subs = \_\_\_\_.

Source: Department of Technical Education, Vocational and Industrial Training.



**APPENDIX 5: TRADE LIST OF AFFILIATED TRADES COVERED UNDER THE  
HIMACHAL PRADESH SKILLS DEVELOPMENT PROJECT**

<b>S. No.</b>	<b>Trades Covered across 41 ITIs</b>	<b>NCVT-Affiliated Trade</b>	<b>SCVT-Affiliated Trade</b>	<b>Trade in Affiliated with NCVT and SCVT</b>
1	Basic Cosmetology			
2	Computer Aided Embroidery and Designing			
3	Computer Operator and Programming Assistant			
4	Data Base System Assistant			
5	Draughtsman (Civil)			
6	Draughtsman (Mechanical)			
7	Dress Making			
8	Digital Photographer			
9	Electrician			
10	Electronics Mechanic			
11	Fitter			
12	Fashion Design and Technology			
	Information Communication Technology System			
13	Maintenance			
14	Mechanic (Motor Vehicle)			
15	Mechanic (Refrigeration and Air Conditioning)			
16	Mechanic Auto Electrical and Electronics			
17	Mechanic Motor Cycle			
18	Plumber			
19	Plastic Processing Operator			
20	Pump Operator-Cum-Mechanic			
21	Sewing Technology			
22	Surface Ornamentation Techniques (Embroidery)			
23	Tool and Die Maker (Dies and Moulds)			
24	Welder			
25	Turner			

ITI = industrial training institute, NCVT = National Council for Vocational Training, SCVT = State Council for Vocational Training.

Source: Department of Technical Education, Vocational and Industrial Training.

**APPENDIX 6: INDUSTRIAL TRAINING INSTITUTES COVERED UNDER VOCATIONAL TRAINING IMPROVEMENT PROJECT AND THE PUBLIC-PRIVATE PARTNERSHIP SCHEME SUPPORTED BY WORLD BANK**

SR No.	ITI	District	Name of Scheme
1	Rong Tong	Lahul and Spiti	VTIP
2	Shamshi	Kullu	VTIP
3	Chamba	Chamba	VTIP
4	Nadaun (at Rail)	Hamirpur	VTIP
5	Shahpur	Kangra	VTIP
6	Reckong Peo	Kinnour	VTIP
7	Mandi	Mandi	VTIP
8	Mandi (W)	Mandi	VTIP
9	Solan	Solan	VTIP
10	Shimla	Shimla	VTIP
11	Shimla (W)	Shimla	VTIP
12	Rampur	Shimla	VTIP
13	Nahan	Sirmaur	VTIP
14	Una	Una	VTIP
15	Bilaspur	Bilaspur	PPP Mode
16	Bilaspur (W)	Bilaspur	PPP Mode
17	Berthin	Bilaspur	PPP Mode
18	Chamba (W)	Chamba	PPP Mode
19	Hamirpur	Hamirpur	PPP Mode
20	Bhoranj	Hamirpur	PPP Mode
21	Bani	Hamirpur	PPP Mode
22	Nurpur	Kangra	PPP Mode
23	Dhameta	Kangra	PPP Mode
24	Jawali	Kangra	PPP Mode
25	Nehranpukhar	Kangra	PPP Mode
26	Saliana	Kangra	PPP Mode
27	Dharamshala	Kangra	PPP Mode
28	Palampur	Kangra	PPP Mode
29	Reckong Peo (W)	Kinnour	PPP Mode
30	Sainj	Kullu	PPP Mode
31	Kullu	Kullu	PPP Mode
32	Udaipur	Lahul and Spiti	PPP Mode
33	Sundernagar (PWD)	Mandi	PPP Mode
34	Bagsaid	Mandi	PPP Mode
35	Jogindernagar	Mandi	PPP Mode
36	Paplog	Mandi	PPP Mode
37	Deegal	Solan	PPP Mode
38	Nalagarh	Solan	PPP Mode
39	Nalagarh (W)	Solan	PPP Mode
40	Kasauli	Solan	PPP Mode
41	Chopal	Shimla	PPP Mode
42	Rajgarh	Sirmaur	PPP Mode
43	Nahan (W)	Sirmaur	PPP Mode
44	Una (W)	Una	PPP Mode
45	Bangana	Una	PPP Mode
46	Paonta Sahib	Sirmaur	PPP Mode
47	Jubbal	Shimla	PPP Mode

ITI = industrial training institute, PPP = public-private partnership, PWD = persons with disabilities, VTIP = Vocational Training Improvement Project, W = women.

Note: These ITIs are not covered under the Himachal Pradesh Skills Development Project to avoid duplication.

Source: Department of Technical Education, Vocational and Industrial Training.