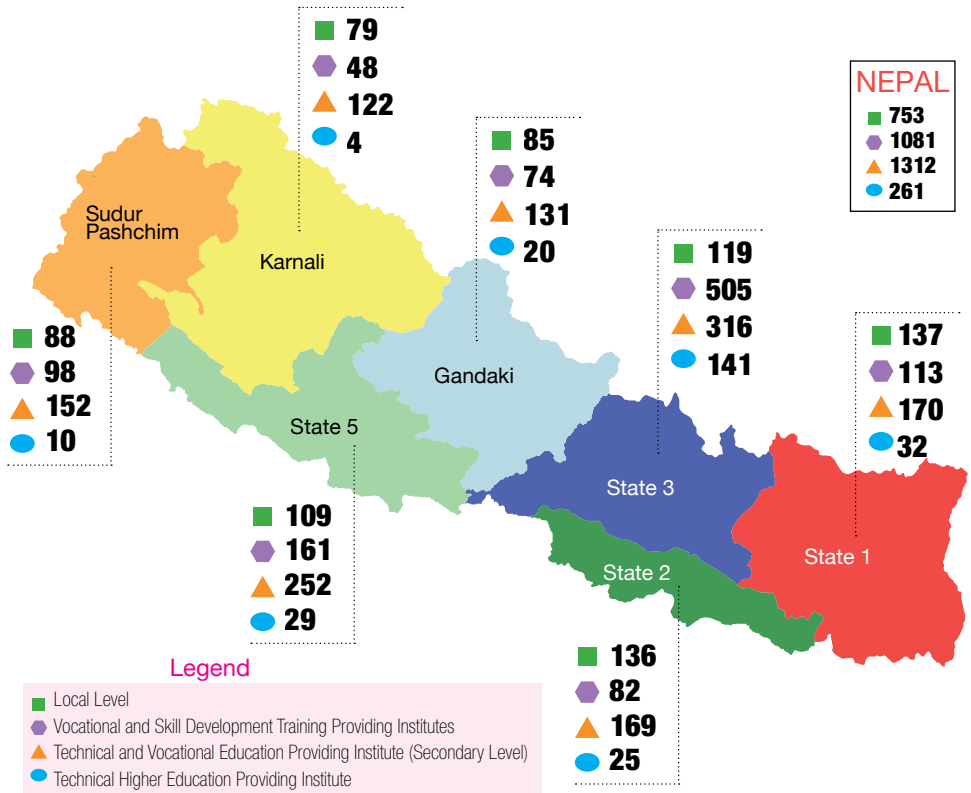


(Technical & Vocational Education and Skills Development-TVESD)

Factsheet 2019



Government of Nepal
 Ministry of Education, Science & Technology
 Singhadurbar, Kathmandu

CONTEXT

The Technical and Vocational Education and Skills Development (TVESD) Factsheet, 2019 presents a brief synopsis of the TVESD related information of the Ministry of Education, Science & Technology and other agencies under it. This factsheet comprises Nepal's long-term vision, national goals, including education visions, goals and objectives of the 15th five year plan of the country. It further includes summary details of three major areas of TVESD: Technical and vocational skill development and training, technical and vocational education (secondary level), and Technical higher education. The contents included in this factsheet have been compiled and edited in close coordination and cooperation between and among this ministry's Planning & Monitoring Division; Vocational Training Promotion Section; Statistics, Policy and Research Section; University Grants Commission; National Examination Board; Council for Technical Education and Vocational Training; Center for Education and Human Resources Development, Enhanced Vocational Education and Training (EVENT-II) Project and Support to Knowledge and Lifelong Learning Skills (SKILLS) Programme. Finally, we heartily thank all those who were intensively involved in developing this factsheet and highly appreciate any constructive feedback and suggestions.

Technical and Vocational Education Division
June 2019

Nepal's 25-year Long-Term Vision": "Prosperous Nepal, Happy Nepal"

A country with prosperous, independent and socialism-oriented national economy by means of healthy, educated, decent and happy citizens who enjoy equal opportunity and have high living standards.

Graduate Nepal to a developing country by 2022, elevate to a status of a middle-income country by 2030 by achieving sustainable development goals, and have it reach the level of a prosperous nation by the year 2043.

Source: 15th Plan (Approach Paper), National Planning Commission, 2076 (2019)

Long-Term National Vision

Prosperity	Happiness
1. Accessible modern infrastructure and intensive connectivity	1. Well-being and decent life
2. Development and full utilization of human capital potentials	2. Safe, civilized and just society
3. High and sustainable production and productivity	3. Healthy and balanced environment
4. High and equitable national incomes	4. Good governance
	5. Comprehensive democracy
	6. National unity, security and dignity

Source: 15th Plan (Approach Paper), National Planning commission, 2076

Education vision, goals and objectives of the 15th plan

Vision: Human Resources Development for Socio-Economic Transformation

Goal: Develop creative, capable, innovative, competitive and productive human resources through the means of quality education

Objectives:

1. To make education qualitative, pragmatic and technology-friendly by ensuring compulsory and free basic education with the experience of early childhood education and access to free secondary education to all.

2. To ensure inclusive and equitable access to quality technical education and vocational skill development.

3. To build a knowledge-based society and economy by increasing access to quality higher education and make it scientific, innovative, research oriented, technology-friendly, and employment-oriented.

4. To ensure life-long learning opportunities for all citizens

5. To maintain good-governance in all levels of educational-administrative agencies and educational institutions as per the federal structure

1. Technical & Vocational Skill Development and Training

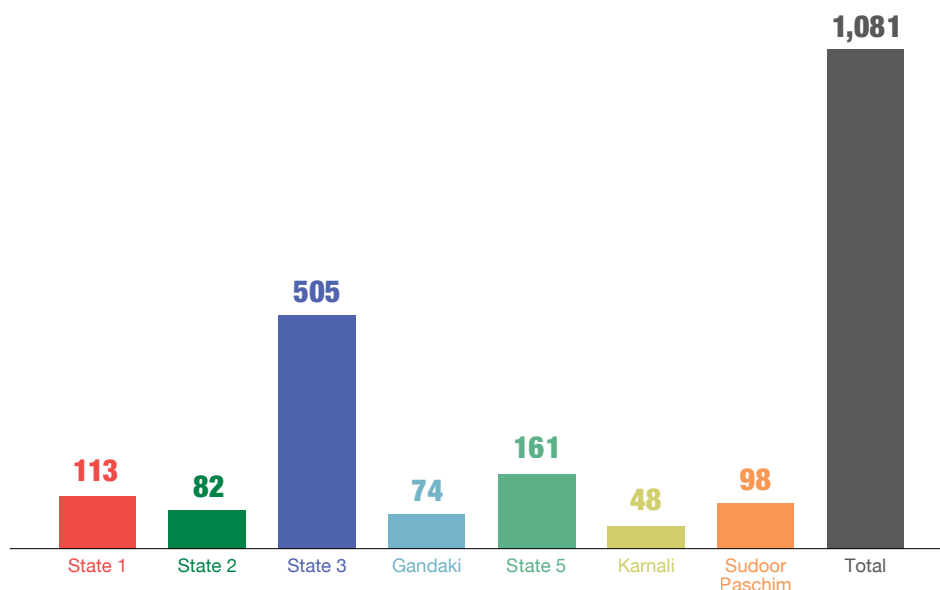
In the first section of the TVESD Factsheet, the data related to technical and vocational skill development and training have been presented in the following manner:

Table 1.1: Curriculum and Skill Standard, 2019

S.N.	Curriculum and Skill Standard	Quantity
1	Skill Development Training (140 hrs to 792 hrs)	194
2	TSLC (18 Months)	27
3	Diploma and PCL (3 years)	43
4	Occupational Training (1696 hrs)	9
5	Technical Stream (Class 9-12)	6
6	National Occupational Skill Standard	290

Source: Education and Human Resources Development Center (2019) and Council for Technical Education and Vocational Training (2019)

Figure 1.1. Distribution of Technical & Vocational Skill Development and Training (TVESD) Providers by State, 2019



Source: Council for Technical Education and Vocational Training (2019)

Table 1.2: Number of skill test appeared participants and graduates, 2019

S.N.	Level	Till June 2017		From July 2017 to June 2018		From July 2018 to May, 2019		Total till May 2019	
		Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed
1	Elementary Level	9,000	7,853	-	-	-	-	9,000	7,853
2	Level 1	328,258	244,117	38,037	37,712	23,292	17,811	389,587	299,640
3	Level 2	40,222	18,897	6,509	3,407	10,393	4,468	57,124	26,772
4	Level 3	7,079	2,349	1,200	247	936	273	9,215	2,869
5	Level 4	47	37	-	-	-	-	47	37
	Total	384,606	273,253	45,746	41,366	34,621	22,552	464,973	337,171

Source: Enhanced Vocational Education and Training (EVENT II) Project and Council for Technical Education and Vocational Training (2019)

2. Technical and Vocational Education (Secondary level)

In the second section of the TVESD factsheet, data and information related to technical and vocational education (secondary level) have been presented in the following way.

Table 2.1: Availability of technical and vocational education institutes (by state and local level), 2019

S.N.	State	Total Local Levels	Accessibility Status (Local Level wise)				
			TSLC	Diploma	Technical Stream (Class 9-12)	with TVET Institutes	without TVET Institutes
1	State 1	137	29	23	77	92	45
2	State 2	136	24	21	68	87	49
3	State 3	119	38	52	61	87	32
4	Gandaki	85	30	19	36	59	26
5	State 5	109	38	27	76	92	17
6	Karnali	79	36	26	26	61	18
7	Sudur Pashchim	88	43	24	40	69	19
	Total	753	238	192	384	547	206

Source: Center for Education and Human Resources Development (2019) and Council for Technical Education and Vocational Training (2019)

Table 2.2: Technical and vocational education (secondary level) providers by state, 2019

S.N.	State	Types of secondary schools and diploma-level technical institutes					Total
		Constituent	TECS	Partnership	Affiliated	Technical Stream (Class 9-12)	
1	State 1	4	27	3	53	83	170
2	State 2	6	33	0	53	77	169
3	State 3	12	80	2	150	72	316
4	Gandaki	9	44	0	36	42	131
5	State 5	8	63	1	88	92	252
6	Karnali	3	73	0	19	27	122
7	Sudur Pashchim	4	77	0	30	41	152
	Total	46	397	6	429	434	1312

Source: Center for Education and Human Resources Development (2019) and Council for Technical Education and Vocational Training (2019)

Table 2.3: Technical and vocational education (secondary level) programs run by various agencies by state, 2019 (Technical SLC)

S.N.	State	Types of Institutions				Total
		Constituent	TECS	Partnership	Affiliated	
1	State 1	2	26	4	97	129
2	State 2	4	21	0	69	94
3	State 3	8	52	2	120	182
4	Gandaki	6	31	0	46	83
5	State 5	14	45	0	94	153
6	Karnali	4	62	0	36	102
7	Sudur Pashchim	4	71	0	37	112
	Total	42	308	6	499	855

Source: Council for Technical Education and Vocational Training (2019)

Table 2.4: Technical and vocational education (secondary level) programs run by various agencies by state, 2019 (Diploma/Proficiency Certificate Level and Technical Stream)

S.N.	State	Types of secondary schools and diploma-level technical institutes					Total
		Constituent	TECS	Partnership	Affiliated	Technical Stream (Class 9-12)	
1	State 1	7	15	6	46	83	157
2	State 2	16	21	0	53	77	167
3	State 3	28	46	4	176	72	326
4	Gandaki	10	24	0	20	42	96
5	State 5	22	44	2	63	92	223
6	Karnali	6	34	0	3	27	70
7	Sudur Pashchim	9	33	0	18	41	101
	Total	98	217	12	379	434	1140

Source: Center for Education and Human Resources Development (2019) and Council for Technical Education and Vocational Training (2019)

Table 2.5: Technical and vocational education (secondary level) programs run by various agencies by state 2019 (Technical SLC, Diploma/Proficiency Certificate Level and Technical Stream)

S.N.	State	Types of secondary schools and diploma-level technical institutes					Total
		Constituent	TECS	Partnership	Affiliated	Technical Stream (Class 9-12)	
1	State 1	9	41	10	143	83	286
2	State 2	20	42	0	122	77	261
3	State 3	36	98	6	296	72	508
4	Gandaki	16	55	0	66	42	179
5	State 5	36	89	2	157	92	376
6	Karnali	10	96	0	39	27	172
7	Sudur Pashchim	13	104	0	55	41	213
	Total	140	525	18	878	434	1995

Source: Center for Education and Human Resources Development (2019) and Council for Technical Education and Vocational Training (2019)

Figure 2.1: Expansion of Technical and Vocational Education, 2019

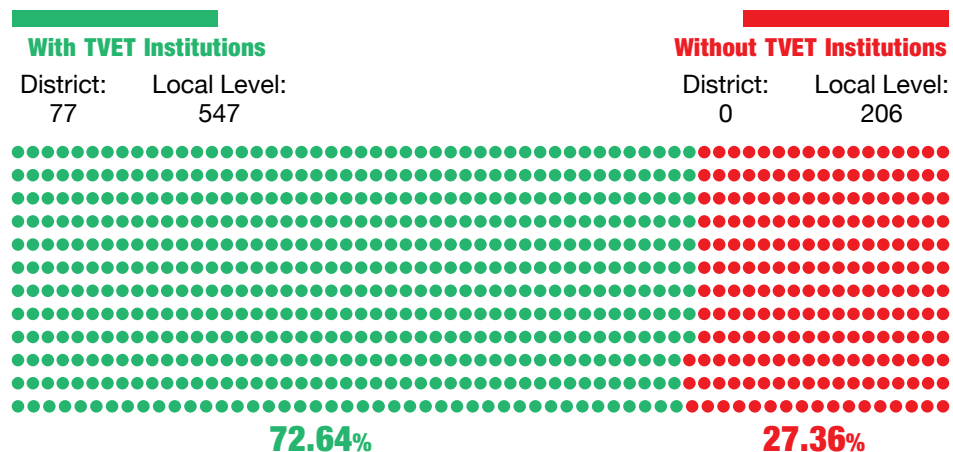


Table 2.6: Technical and Vocational Education (District and Local Level), 2019

State No. 1

S.N.	District	Number of Local Levels		Total Local Levels
		with TVET Institutes	without TVET Institutes	
1	Taplejung	4	5	9
2	Panchthar	4	4	8
3	Ilam	6	4	10
4	Jhapa	15	0	15
5	Morang	15	2	17
6	Sunsari	9	3	12
7	Dhankuta	4	3	7
8	Terhathum	3	3	6
9	Bhojpur	5	4	9
10	Solukhumbu	2	6	8
11	Sankhuwashabha	7	3	10
12	Khotang	6	4	10
13	Okhaldhunga	7	1	8
14	Udayapur	5	3	8
	Total	92	45	137

Cont.

State No. 2

S.N.	District	Number of Local Levels		Total Local Levels
		with TVET Institutes	without TVET Institutes	
1	Saptari	10	8	18
2	Siraha	15	2	17
3	Dhanusa	15	3	18
4	Mahottari	9	6	15
5	Rautahat	12	6	18
6	Sarlahi	9	11	20
7	Bara	10	6	16
8	Parsa	7	7	14
	Total	87	49	136

State No. 3

1	Sindhuli	8	1	9
2	Ramechhap	8	0	8
3	Dolakha	5	4	9
4	Sindhupalchowk	7	5	12
5	Kavrepalanchowk	8	5	13
6	Lalitpur	5	1	6
7	Bhaktapur	4	0	4
8	Kathmandu	10	1	11
9	Nuwakot	6	6	12
10	Rasuwa	3	2	5
11	Dhading	8	5	13
12	Makwanpur	9	1	10
13	Chitwan	6	1	7
	Total	87	32	119

Cont.

Gandaki State

S.N.	District	Number of Local Levels		Total Local Levels
		with TVET Institutes	without TVET Institutes	
1	Gorkha	6	5	11
2	Lamjung	5	3	8
3	Tanahun	8	2	10
4	Syanja	8	3	11
5	Kaski	4	1	5
6	Manang	1	3	4
7	Mustang	3	2	5
8	Myagdi	5	1	6
9	Parbat	5	2	7
10	Baglung	8	2	10
11	Nawalparasi (Susta East)	6	2	8
	Total	59	26	85

State 5

1	Gulmi	11	1	12
2	Palpa	10	0	10
3	Nawalparasi (Susta West)	5	2	7
4	Rupandehi	12	4	16
5	Kapilvastu	10	0	10
6	Arghakhanchi	4	2	6
7	Pyuthan	9	0	9
8	Rukum East	2	1	3
9	Rolpa	7	3	10
10	Dang	8	2	10
11	Banke	6	2	8
12	Bardia	8	0	8
	Total	92	17	109

Karnali State

S.N.	District	Number of Local Levels		Total Local Levels
		with TVET Institutes	without TVET Institutes	
1	Salyan	8	2	10
2	Rukum West	5	1	6
3	Surkhet	9	0	9
4	Dailekh	10	1	11
5	Jajarkot	5	2	7
6	Dolpa	3	5	8
7	Jumla	8	0	8
8	Mugu	3	1	4
9	Kalikot	6	3	9
10	Humla	4	3	7
	Total	61	18	79

Sudur Pashchim State

1	Bajura	3	6	9
2	Bajhang	9	3	12
3	Achham	8	2	10
4	Doti	6	3	9
5	Kailali	12	1	13
6	Dadeldhura	5	2	7
7	Kanchanpur	7	2	9
8	Baitadi	10	0	10
9	Darchula	9	0	9
	Total	69	19	88

Source: Center for Education and Human Resources Development (2019) and Council for Technical Education and Vocational Training (2019)

Cont.

Table 2.7: Human resources produced in various trades of technical SLC level

S.N.	Trade	Total till June 2014	July 2014 to June 2015	July 2015 to June 2016	July 2016 to June 2017	Total till June 2017
1	Engineering	48241	2210	2949	4822	58222
2	Health	61250	6269	7241	7735	82495
3	Agriculture, Livestock, and Forestry	38056	3704	2740	6919	51419
4	Others	4987	143	210	252	5592
	Total	152534	12326	13140	19728	197728

Source: Council for Technical Education and Vocational Training (2019)

Table 2.8: Human resources produced in various trades of diploma level

S.N.	Trade	Total till June 2014	July 2014 to June 2015	July 2015 to June 2016	July 2016 to June 2017	Total till June 2017
1	Health	24504	7776	8230	8812	49322
2	Engineering	6700	1869	1343	2359	12271
3	Hotel Management	0	26	78	65	169
4	Agriculture & Livestock	3798	254	271	842	5165
5	Forestry	0	42	36	35	113
	Total	35002	9967	9958	12113	67040

Source: Council for Technical Education and Vocational Training (2019)

Table 2.9: Human resources produced in technical stream (Grade 11-12 regular), 2019

Academic Year	Class 11		Class 12		Remarks
	Appeared	Passed	Appeared	Passed	
2073	2178	469	0	0	Results published under: (i) numerical grading system=2016, 2017 (class 12) (ii) letter grading system= class 11 (2017), class 11 and 12 (2018)
2074	2132	2132	1931	344	
2075	2154	2154	1938	1938	

Source: National Examination Board (2019)

3. Technical higher education

Information of technical higher education has been presented in this section.

Table 3.1: Faculties of universities and institutes/academies providing technical higher education (by state)

S.N.	Faculty	State							Total
		1	2	3	Gandaki	5	Karnali	Sudur Pashchim	
1	Agriculture	3	1	7	2	3		2	18
2	Animal Science, Veterinary & Fisheries			2		1			3
3	Ayurveda			1		1			2
4	Engineering	3	2	33	5	5	1	2	51
5	Forestry	1		4					5
6	Medical Science	9	11	42	6	6	1		75
7	Science & Technology	18	11	66	7	15	2	7	126
	Total	34	25	155	20	31	4	11	280

Source: University Grants Commission (2018)

Table 3.2: Colleges under universities and institutes/academies providing technical higher education (by state), 2018

S.N.	Faculty	State							Total
		1	2	3	Gandaki	5	Karnali	Sudoor Paschim	
	University and Institutes/Academies								
1	Tribhuvan University	17	15	71	11	19	1	7	141
2	Nepal Sanskrit University					1			1
3	Kathmandu University	1		8	1	2			12
4	Purbanchal University	11	9	44	2	2			68
5	Pokhara University			10	5	5		1	21
6	Lumbini Buddhist University			2					2
7	Agriculture & Forestry University	2	1	4	1			1	9
8	Mid-Western University						2		2
9	Far-Western University							1	1
10	B.P Koirala Institute of Health Sciences	1							1
11	National Academy of Medical Sciences			1					1
12	Patan Academy of Health Sciences			1					1
13	Karnali Academy of Health Sciences						1		1
	Total	32	25	141	20	29	4	10	261

Source: University Grants Commission (2018)

Table 3.3: Faculties under universities and institutes/academies providing technical higher education, 2018

S.N.	University and Institutes/Academy	Faculty							Total
		Agri-culture	Animal Science, Veterinary and Fisheries	Ayur-veda	Engineer-ing	Forestry	Medicine	Science and Technology	
1	Tribhuvan University	8	2	1	14	3	16	103	147
2	Nepal Sanskrit University			1					1
3	Kathmandu University				1		10	1	12
4	Purbanchal University	3			18	1	40	16	78
5	Pokhara University				16		4	3	23
6	Lumbini Buddhist University						1	1	2
7	Agriculture and Forestry University	7	1			1			9
8	Mid-Western University				1			1	2
9	Far-Western University				1			1	2
10	B.P Koirala Institute of Health Sciences						1		1
11	National Academy of Medical Sciences						1		1
12	Patan Academy of Health Sciences						1		1
13	Karnali Academy of Health Sciences						1		1
	Total	18	3	2	51	5	75	126	280

Source: University Grants Commission (2018)

Table 3.4: Students enrolled in technical higher education, 2018

S.N.	Faculty	Female		Male	Total	Percentage
		Number	Percentage			
1	Agriculture	1133	34.8	2127	3260	3.7
2	Animal Science, Veterinary & Fisheries	186	26.4	519	705	0.8
3	Ayurveda	77	41.6	108	185	0.2
4	Engineering	4065	14.5	23954	28019	31.4
5	Forestry	149	36.5	249	408	0.5
6	Medicine	15551	60.6	10111	25662	28.8
7	Science & Technology	10824	34.9	20189	31013	34.7
	Total	31985		57257	89252	

Note: Of the total 3,71,184 students enrolled in higher education in the country, 89,252 (24 %) are pursuing technical higher education.

Source: University Grants Commission (2018)

