



National Institute of Technical Teachers Training and Research, Chandigarh

Newsletter

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NATIONAL SKILL QUALIFICATION FRAMEWORK [NSQF]

Over 65% population of India is below 35 years of age and 50% population is less than 25 years of age. While major countries of the world move towards aging, India is growing younger. With the help of well-trained manpower, India holds the potential of reaping the demographic dividend. Vocational education had been in vogue, but it did not get honourable acceptance by Indian society in comparison with academic programmes. Efforts made in school education system to make vocational subject compulsory and optional have not yielded encouraging results. Conventional vocational education programmes do not provide mobility to learners. With a view to making the vocational education attractive for the learners, Govt of India has launched an integrated qualification framework-National Skill Qualification Framework [NSQF] – with varying proportion of vocational skill and academic inputs. The framework allows vertical and horizontal mobility to the learners. The framework allows multiple pathways between vocational education – skill, education and the job market. Figure 1 describes the pathways available to a learner under NSQF.

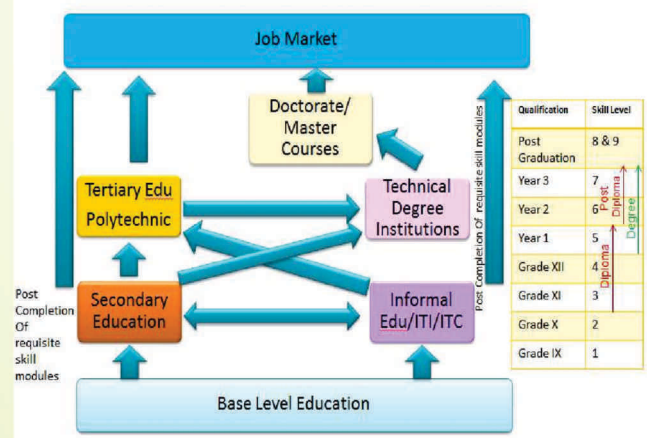


Fig 1: Pathways in NSQF:

The framework does not seek to replace the current systems of education nor does it redefine the current education paradigm. It seeks to establish a credit framework that also allows vertical and lateral mobility within vocational education system, skill development and the current education system.

Objectives:

The framework aims at achieving the following objectives:

- ▶ Bridge skill gap and provide trained manpower to various emerging service sectors in India.
- ▶ Strive towards development of skilled manpower for diversified sectors through short term, structured and job oriented Courses.
- ▶ Prepare the youth for a vocation of their choice.
- ▶ Build a formidable work force of international quality for demand not only in India but also in other countries.
- ▶ Reduce unemployment by supplying world-class skilled manpower.
- ▶ Reduce cost and improve productivity of services and manufacturing by providing skilled manpower to international standards.

Salient Features of NSQF

- ▶ Across sectors and across the country
- ▶ Focus on practicals and skill training in industry
- ▶ Full day, half day or week end programs
- ▶ Full mobility between formal, vocational streams of education and the job market with multi-point entry and exit.
- ▶ Short duration, focused and modular programs
- ▶ Delivery in the local language
- ▶ A network of centres

Vocational Skill and general learning mix at different levels of NSQF.

Each skill level involves certain number of vocational skill hours and general learning hours. Level one involves minimum of vocational skill hours and maximum of general learning hours. Level nine involves maximum of vocational skill hours and minimum of general learning hours. Combination of vocational skill hours and general learning hours at different levels of skill is shown in Table 1.

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Table 1: Suggested Hrs. of Learning

Qualification	Equivalence		Skill Certification Level	Competency based Vocational Skill Building (in Hrs.) (approx.)	General Learning (in Hrs.) (approx.)	Total Hrs.
IX std.	IX	IX	1	250	750	1000
X std.	X	X	2	250	750	1000
XI std.	Diploma (Vocational)	XI (Vocational)	3	400	600	1000
XII std.	Diploma (Vocational)	XII (Vocational)	4	450	550	1000
Year I	Diploma (Vocational)	Degree (Vocational)	5	550	450	1000
Year II	Advanced Diploma (Vocational)	Degree (Vocational)	6	600	400	1000
Year III	Advanced Diploma (Vocational)	Degree (Vocational)	7	750	250	1000
Year I, II (PG)	-	PG (Vocational)	8,9	1600-1800	200-400	2000

Community Colleges Scheme:

Community Colleges Scheme of skill development is particularly suitable for those who could not complete secondary education or not able to pursue higher education due to financial constraints. The scheme provides for easy entry and easy exit at each certification level. Equivalence of NSQF levels and Community College levels, blending of vocational skill and general education, eligibility criteria and certifying bodies under the Community College Scheme are shown in Table 2:

Table 2: NSQF and Community College Framework, Blending of Vocational Skill and General Education, Eligibility and Certifying Body

NSQF Certification Levels	Community Skill Diploma Levels	Competency Based Vocational Skill Building (in hrs)	General Education (in hrs)	Total (in hrs)	Who is Eligible	What will be given (Certification) and who will provide
I	I	200	Communication Skills (250)	1000	Any	Polytechnics will conduct and Board will certify level I
II		300	Basic Sciences (250)			
III	II	400	Communication Skills (100)	1000	Above and any provided the skills at level I are certified	Polytechnics will conduct and Board will certify level II
IV		400	Basic Sciences (100)			
V	III	600	Computing skills (200) Any Foreign language or any other Indian language other than native: (200)	1000	Above and any provided the skills at level I, II are certified	Polytechnics will conduct and Board will certify level III
VI	VI	700	Basic accounting and Book Keeping skills (150) Entrepreneurial Skills, Setup small business etc. (150)	1000	Above and any provided the skills at level I, II, III are certified	Polytechnics will conduct and Board will certify level IV
VII	V	800	Presentation, grooming and finishing skills (200)	1000	Above and any provided the skills at level I, II, III, IV are certified	Polytechnics will conduct and Board will award Community Skill Diploma

Skill development under the NSQF and Community Colleges scheme has started in the country. While University Grants Commission is trying to promote vocational training through college education system, AICTE is promoting the same through polytechnic system of education. Boards of School Education are also involved in imparting skills at level 1 to 4 starting from 9th standard of school education. It is hoped that NSQF will prove effective in developing employable skills among our youth and making the country reap the demographic dividend.

Prof JS Saini
Dean-Extension Services & Consultancy and
Professor, Rural Development

**Programme
on
"Training the Trainers' of Technical School in Nigeria"
14 April – 01 May 2015 at NITTTR CHANDIGARH**



Realizing the need of enhancing employability of the product of Technical Schools in Nigeria, through evaluation of curriculum for Electrical Installation and Maintenance Work and Training of Trainers of a Technical school in Nigeria, Skippers Electrical (India) Limited under the aegis of GTA Engineering (Nigeria) limited approached National Institute of Technical Teachers Training and Research, Chandigarh to organize a training programme on "Electrical Installation and Maintenance Work." This programme was conducted by Electrical Engineering Department from 14 April–01 May, 2015. The programme aimed at providing hands-on training to 06 teachers of the technical school in Nigeria mainly in the area of Electrical Installation and Maintenance Work.

**Workshop on
Quality Improvement in Technical Education
in Himachal Pradesh**



A two day workshop on Quality Improvement in Technical Education in H.P. was jointly organized by H.P. Private Educational Institutions Regulatory Commission and NITTTR, Chandigarh on 15 and 16 May, 2015 at NITTTR, Chandigarh. The workshop was inaugurated by Mrs. Sarojini Ganju Thakur, Chairperson, H.P. Private Educational Institutions Regulatory Commission and Dr. M.P. Poonia, Director, NITTTR, Chandigarh. The participants included Vice Chancellors, Deans, HODs and faculty from Universities and Colleges of Engineering and Technology from H.P. State.

The objectives of the workshop were to:

- ▶ Create awareness regarding quality issues and need for accreditation in technical education system.
- ▶ Share best practices in curriculum, teaching learning process, evaluation, academia industry interaction existing in the HP technical Universities and institutes.
- ▶ Evolve strategies to improve quality of technical education in Himachal Pradesh.

**International Conference
on
'Electronic Design Innovations and Technologies'
(EDIT-2015)**



Release of Conference Proceedings

First International Conference on 'Electronic Design Innovations and Technologies (EDIT-2015) was organized by Electronics and Communication Engineering Department from 27-28 April, 2015. The conference was inaugurated by Chief Guest Ms. Poonam Sachdeva, Director Corporate, Skipper Electricals (India) Ltd., Guest of Honour Dr. Meng Joo from Nanyang Technological University, Singapore and Patron Dr. M.P. Poonia, Director, NITTTR, Chandigarh. The main Objective of this conference was to provide a common platform for Researchers, Technocrats, Academicians and Engineers to present their research work. 104 papers were included in the conference proceedings related to the following themes:

- a) Digital Signal Processing; b) Digital System Design; c) Digital Communication; d) Optical Fiber Communication; e) Computer Networks; f) VLSI Design; g) Wireless and Mobile Communication; h) Embedded System Design; i) Image Processing; j) ANN and Fuzzy Logic; k) Antenna System; l) Soft Computing; m) Wireless Sensor Networks; n) Simulation and Modeling.



INTERNATIONAL YOGA DAY

International Yoga Day was celebrated on 21.06.2015 at the institute which was attended by the staff and the students of the institute

Training programmes conducted during April – June, 2015

Particulars	Number of Programmes	Number of Participants
Polytechnics	40	410
Engineering Colleges		567
Induction Training Programmes through ICT	09	1186

Newly Renovated Auditorium



Hi-Tech Auditorium Inaugurated by Dr. K K Talwar, Chairman, Board of Governners, NITTTR, Chandigarh on 08 May, 2015



राजभाषा पुरस्कार

मानव संसाधन विकास मंत्रालय, भारत सरकार, नई दिल्ली के तत्वाधान में एसवीएनआईटी, सूरत में 14-15 मई, 2015 को आयोजित अखिल भारतीय राजभाषा संगोष्ठी के उद्घाटन समारोह के दौरान वर्ष 2014-15 हेतु राजभाषा हिन्दी में उत्कृष्ट कार्य करने के लिए द्वितीय पुरस्कार प्राप्त करते हुए संस्थान के निदेशक डा0 एम पी पूनियाँ ।

समारोह के दौरान वर्ष 2014-15 हेतु राजभाषा हिन्दी में उत्कृष्ट कार्य करने के लिए द्वितीय पुरस्कार प्राप्त करते हुए संस्थान के निदेशक डा0 एम पी पूनियाँ ।

Farewell

1. **Shri Om Parkash**, Junior Electronics Engineer superannuated on 30.04.2015.
2. **Shri GB Pandey**, Senior Producer superannuated on 31.05.2015.
3. **Shri Gurdev Singh**, Personal Assistant superannuated on 31.05.2015.
4. **Dr. SBL Sachan**, Professor & Head, Electronics and Communication Engineering Department superannuated on 30.06.2015.
5. **Shri Raj Pal**, Upper Division Clerk superannuated on 30.06.2015.
6. **Shri Sukhwant Singh**, MSA superannuated on 30.06.2015.

Job Fair for the Differently Aabled Persons Organised on 08 May, 2015 at NITTTR, Chandigarh

NITTTR Chandigarh in collaboration with Sarthak Educational Trust, New Delhi, CII Chandigarh and Vocational Rehabilitation Centre, Ludhiana organised a Job Fair for the differently abled persons on 8th May, 2015. 200 persons with disabilities and 18 employers participated in this mega event. A stakeholder's sensitization workshop was also held on 7th May, 2015, a day before the job fair. The sensitization workshop proved useful in attracting a good number of employers to the job fair. The job fair resulted in shortlisting of 61 persons with disabilities by the employers. Persons with disabilities were offered jobs in hospitality, retail, BPO, IT and manufacturing sectors.



Dr. Jitender Aggarwal, CEO, Sarthak Education Trust, New Delhi, Mrs. Vinni Mahajan, IAS, Principal Secretary, Health and Family Welfare, Govt. of Punjab, Dr. MP Poonia, Director, NITTTR, Chandigarh and Prof. JS Saini, Dean-ESC, NITTTR, Chandigarh interacting with stakeholders during the workshop.



Dr. Vidhu Mohan, Former Professor, Panjab University, Chandigarh, delivering lecture on Sexual Harrasment and Coping to students and faculty of the Institute on 29 June, 2015.