



Please refer [Guidelines for STT/LTT/Apprenticeship/OEM Qualification File](#)

QUALIFICATION FILE

Genetic Counselor

Short Term Training (STT) Long Term Training (LTT) Apprenticeship

Upskilling Dual/Flexi Qualification For ToT For ToA

General Multi-skill (MS) Cross Sectoral (CS) Future Skills OEM

NCrF/NSQF Level: 6

Submitted By:

Healthcare Sector Skill Council

Office No. 520-521, 5th Floor, DLF Tower A, Jasola, New Delhi - 110025, India

NSQF Approved

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NSQC Approved

Section 1: Basic Details

1. Qualification Name	Genetic Counselor										
2. Sector/s	Healthcare										
3. Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: 2022/HLT/HSSC/06131, V1.0	Qualification Name of existing/previous version: Genetic Counselor									
4. a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>											
5. National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-05-HE-00667-2023-V1.1-HSSC	6. NCrF/NSQF Level: 6									
7. Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Skill Certificate										
8. Brief Description of the Qualification	A genetic counselor is an allied healthcare professional who is responsible for obtaining clinical, family and health information, advising individuals/families about their risk of inheriting genetic diseases, informing testing options for diagnosis and providing available options to prevent/ treat genetic conditions. They also focus on empowering their patients by helping them understand and adjust to the genetic conditions										
9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 60%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 30%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Pursuing first year of 2-year PG program (Human genetics/ Genetics/ Bio technology) after completing 3 year UG degree in the relevant field</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">or</td> <td></td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Pursuing first year of 2-year PG program (Human genetics/ Genetics/ Bio technology) after completing 3 year UG degree in the relevant field			or	
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)									
1	Pursuing first year of 2-year PG program (Human genetics/ Genetics/ Bio technology) after completing 3 year UG degree in the relevant field										
	or										

		2	Pursuing 4th year UG (in case of 4-year UG with honours/ honours with research) in the relevant field (Medical Graduate (MBBS/ BHMS/ BAMS/ BUMS)/Graduate (Nursing/ Allied Health Professionals)/BDS/life sciences/clinical psychology/ biotechnology/ pharmacy/ B. Tech Biotechnology or genetics) with continuing education					
			Or					
		3	Graduate (life sciences/ MBBS/ B.Sc. nursing/clinical psychology/ biotechnology/ pharmacy/ BDS/ B. Tech Biotechnology or genetics)					
			Or					
		4	Post-Graduate (Masters in Public Health)					
			or					
			Or					
		5	Previous relevant Qualification of NSQF Level 5.5				with 1.5 year of experience	
			Or					
		6	Previous relevant Qualification of NSQF Level 5				with 3 years of experience	
		b. Age: 18 years						
10	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	50					11. Common Cost Norm Category (I/II/III) (wherever applicable): Category I	
12	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	Not Applicable						
13	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended						
			Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
			Classroom (offline)	540	540	420	NA	1500
			Online					
		(Refer Blended Learning Annexure for details)						

14	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO/2015/2635
15	Progression path after attaining the qualification (Please show Professional and Academic progression)	Progression will be possible in both academic as well as professional area as: Horizontal: NSQF Level 5: Field Trainer/ Field Assessor Vertical: NSQF Level 6: Associate Genetic Counselor/ Senior Genetic Counselor (Prenatal, Pediatric, Neurogenetic, Cancer Counselor) (to be developed) Progression to Diploma/Degree qualifications in the relevant field after training. (NCAHP)"
16	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi
17	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:
18	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:
19	How Participation of Women will be Encouraged	Healthcare is a field where equal opportunity and participation of women is being given as patients could belong to all genders.
20	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
21	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Ashish Jain Email: ashish.jain@healthcare-ssc.in Contact No.: 011-40505850,011 41017346 Website: www.healthcare-ssc.in
23	Final Approval Date by NSQC: 28/07/2022	24. Validity Duration: 3 years 25. Next Review Date: 28/07/2025

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Bridge Modules				1	15	15	0	0	30						
2.	Collect detailed patient and family history to draw a pedigree	HSS/N8713, 2.0	Core	6	7	90	60	60	0	210	36	20	20	40	116	10
3.	Assess risk for genetic disorders or syndromes	HSS/N8714, 2.0	Core	6	4	30	30	60	0	120	82	90	30	45	247	20
4.	Provide counselling on various genetic tests and coordinate for their execution	HSS/N8715, 2.0	Core	6	3	15	30	45	0	90	42	70	32	30	174	10
5.	Interpret the inferences of the genetic tests and carry out post- test counselling	HSS/N8716, 2.0	Core	6	6	30	60	90	0	180	40	50	20	30	140	10
6.	Provide need- based genetic counselling to the patient and their family members	HSS/N8717, 2.0	Core	6	17	180	210	120	0	510	37	40	25	0	102	10
7.	Promote genetics related awareness	HSS/N8718, 2.0	Core	6	6	45	90	45	0	180	40	0	10	25	75	10
8.	Maintain a professional relationship with patients, colleagues and others	HSS/N9615, 2.0	Non-Core	4	1	15	15	0	0	30	13	0	0	0	13	5
9.	Maintain professional and medico-legal conduct	HSS/N9616, 2.0	Core	4	1	15	15	0	0	30	19	0	0	0	19	5

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
10.	Follow infection control policies & procedures including biomedical waste disposal protocols	HSS/N9618, 2.0	Non-Core	4	1	15	10	5	0	30	21	0	13	30	64	10
11.	Employability Skills (90 Hours)	DGT/VSQ/N0103, Version 1.0	Non-Core	5	3	90	0	0	0	90	20	30	0	0	50	10
Duration (in Hours) / Total Marks					50	540	540	420	0	1500	350	300	150	200	1000	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: ____% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Postgraduate (M. Sc) in Life Sciences (Nursing, Dentistry, Pharmacy) Or M.Sc. in Medical Psychology Or M. Sc in Biotechnology Or M. Tech in Biotechnology with 9-year experience working in hospitals with Genetics units and 4 year of teaching experience Or Medical Graduate (MBBS Or Medical Geneticists) with 7-year experience working in hospitals with Genetics units and 3 year of teaching experience
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Postgraduate (M. Sc) in Life Sciences (Nursing, Dentistry, Pharmacy) Or M.Sc. in Medical Psychology Or M. Sc in Biotechnology Or M. Tech in Biotechnology with 10-year experience working in hospitals with Genetics units and 5 year of teaching experience Or Medical Graduate (MBBS Or Medical Geneticists) with 8-year experience working in hospitals with Genetics units and 4 year of teaching experience
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes”, details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Postgraduate (M. Sc) in Life Sciences (Nursing, Dentistry, Pharmacy) Or M.Sc. in Medical Psychology Or M. Sc in Biotechnology Or M. Tech in Biotechnology with 12-year experience working in hospitals with Genetics units and 5 year of teaching/assessment experience Or Medical Graduate (MBBS Or Medical Geneticists) with 5-year experience working in hospitals with Genetics units and 2 year of teaching/assessment experience
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2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Diploma/Graduate
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Postgraduate (M. Sc) in Life Sciences (Nursing, Dentistry, Pharmacy) Or M.Sc. in Medical Psychology Or M. Sc in Biotechnology Or M. Tech in Biotechnology with 12-year experience working in hospitals with Genetics units and 6 year of teaching/assessment experience Or Medical Graduate (MBBS Or Medical Geneticists) with 5-year experience working in hospitals with Genetics units and 3 year of teaching/assessment experience
4.	Assessment Mode (Specify the assessment mode)	Blended (Theory: Online, Practical and Viva: Blended)
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No):
4.	Number of Industry validation provided:
5.	Estimated nos. of persons to be trained and employed:
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Yes
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2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Yes
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Yes
4.	Annexure: Assessment Strategy (Mandatory)	Yes
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	No
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	No
7.	Annexure: Acronym and Glossary (Optional)	Yes
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Yes
9.	Supporting Document: Career Progression (Mandatory - Public view)	Yes
10.	Supporting Document: Occupational Map (Mandatory)	Yes
11.	Supporting Document: Assessment SOP (Mandatory)	Yes
12.	Any other document you wish to submit:	

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	<p>Work in familiar, predictable, routine, situation of clear choice.</p> <ul style="list-style-type: none"> Obtain and record a comprehensive clinical and family history of the patient Prepare a pedigree chart to assess inheritance patterns Assess the probability/ risk of a genetic condition or carrier status Identify suitable genetic/predictive tests Carry out pre-test counselling by interpreting preliminary test results Provide detailed information on various aspects of pre-natal and post-natal screening/diagnostic genetic diseases 	<p>The Genetic Counselor requires well developed skill, with clear choice of procedures in familiar context Refer to the evidence provided in the adjacent column. Hence it falls under Level 6.</p>	6

	<ul style="list-style-type: none"> • Coordinate with the appropriate specialist/ medical geneticist to carry out identified confirmatory diagnostic genetic test • Interpretation and documentation of results of the genetic tests • Carry out post-test counseling • Prepare the patient and the paperwork required for counseling • Provide appropriate genetic counseling to patients and their family members • Educate the fellow healthcare providers about the merits of genetic counseling • Identify and educate the at-risk population regarding the need for genetic counseling 		
Professional and Technical Skills/ Expertise/ Professional Knowledge	<p>Factual knowledge of field of knowledge or study.</p> <ul style="list-style-type: none"> • Perform key role and responsibilities of genetic counselor to serve as point-of-contact for obtaining clinical, family and health information. • Advise individuals/families about their risk of inheriting genetic diseases • Inform testing options for diagnosis and providing available options to prevent/ treat genetic conditions • Provide counselling on various genetic tests and coordinate for their execution • Interpret the inferences of the genetic tests and carry out post- test counselling • Provide need based genetic counseling • Promote genetics related awareness • Maintain a safe, healthy and secure working environment. 	<p>The Genetic Counselor should possess Knowledge of facts, principles, processes and general concepts, in a field of work or study</p> <p>Refer to the evidences provided in the adjacent column. Hence it falls under Level 6.</p>	6

	<ul style="list-style-type: none"> Follow biomedical waste disposal and infection control policies and procedures in the healthcare organization. Maintain interpersonal relationships with co-workers, patients and their family members. 		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	<p>Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts</p> <ul style="list-style-type: none"> Demonstrate the skills necessary to successfully manage a genetic counseling case Facilitate informed decision making in selecting genetic tests and management/ treatment methodology Interpret and explain the results of genetic tests, the diagnosis, etiology, natural history, monitoring and management of a genetic disorder 	<p>The Genetic Counselor should have range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information.</p> <p>Refer to the evidences provided in the adjacent column. Hence it falls under Level 6.</p>	6
Broad Learning Outcomes/Core Skill	<p>Language to communicate written or oral, with required clarity</p> <ul style="list-style-type: none"> Handle queries and guide the concerned personnel accordingly Co-ordinate with the concerned personnel for implementation of the counselling services Facilitate training and continuous education sessions Provide appropriate genetic counseling to patients and their family members Educate the fellow healthcare providers about the merits of genetic counseling Identify and educate the at-risk population regarding the need for genetic counseling 	<p>The Genetic Counselor should have desired mathematical skill; understanding of social, political; and some skill of collecting and organising information, communication</p> <p>Refer to the evidences provided in the adjacent column. Hence it falls under Level 6.</p>	6

	<ul style="list-style-type: none"> • Collect adequate information from patients/ relatives/ referring physician • Support in providing diagnostic related services • Update and store patient related information and provide it to the specialty site • Handle emergency situations appropriately • Register patients for Counselling • Handle appointments • Carry out billing services • Manage database creation, updation and retrieval • Manage accounts and funds at patient site • Manage documentation, inventory and medical records • follow the organization's emergency procedures promptly, calmly, and efficiently • report any identified breaches in health, safety, and security procedures to the designated person • identify and recommend opportunities for improving health, safety, and security to the designated person. 		
Responsibility	<p>Responsibility for own work and learning.</p> <ul style="list-style-type: none"> • Obtain and record a comprehensive clinical and family history of the patient • Prepare a pedigree chart to assess inheritance patterns • Assess the probability/ risk of a genetic condition or carrier status • Identify suitable genetic/predictive tests 	<p>The Genetic Counselor should know to take responsibility for own work and learning and some responsibility for others' works and learning.</p> <p>Refer to the evidences provided in the adjacent column. Hence it falls under Level 6.</p>	<p>6</p>

	<ul style="list-style-type: none"> • Carry out pre-test counselling by interpreting preliminary test results • Provide detailed information on various aspects of pre-natal and post-natal screening/diagnostic genetic diseases • Coordinate with the appropriate specialist/ medical geneticist to carry out identified confirmatory diagnostic genetic test • Interpretation and documentation of results of the genetic tests • Carry out post-test counseling • Prepare the patient and the paperwork required for counseling • Provide appropriate genetic counseling to patients and their family members • Educate the fellow healthcare providers about the merits of genetic counseling • Identify and educate the at-risk population regarding the need for genetic counseling 		
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Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Chart for color coding of bins	Nos	2
2	Different coded color bins (Red, Blue, Black, Yellow)	Nos	1
3	Spill Kit	Nos	2
4	Disposable cartridge and syringes	Nos	2
5	Cotton Roll	Packet	2
6	Towels	Nos	3

7	Safety goggles	Nos	3
8	Shoe cover	Nos	3
9	Cap Disposable	Packet	3
10	Mask Disposable	Packet	3
11	Gloves Disposable	Packet	3
12	Lab coat	Nos	3
13	Apron	Nos	3
14	Alcohol swab	Nos	1
15	Chlorhexidine	ml	1
16	Hypochlorite solution	ml	1
17	copy of MTP Act	Nos	3
18	Sample consent forms	Packet	3
19	Copy of PNDT Act	Nos	3
20	Sample KAP analysis questionnaire	Nos	3
21	Pamphlets	Nos	3
22	Charts on counselling	Nos	3
23	Flip charts	Nos	3
24	SOPs on hospital awareness programs	Nos	3
25	Sample questionnaires,	Packet	3
26	Sample HIS software	Nos	3
27	Sample formats of reports and hospital documents	Nos	3
28	cytogenetic software	Nos	3
29	Instructional videos on procedure of Amniocentesis	Nos	3
30	Charts	Nos	3
31	Sample pedigree charts	Nos	3
32	Computer with internet facility and latest version of software	Nos	3
33	Organ specimen	Nos	3
34	Model human skeletal system	Nos	3
35	3D models of human body and accessory organs	Nos	3

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. AV Aids
2. Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed)
3. (all software should either be latest version or one/two version below)
4. UPS
5. Scanner cum Printer
6. Computer Tables
7. Computer Chairs
8. LCD Projector
9. White Board/Smart Board 1200mm x 900mm
10. Marker
11. Duster
12. Charts
13. Models
14. Flip Chart

Annexure: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No.	Organization	Name of Representative	Designation	City/State
1	apollo diagnostics	Dr Sireesha Vaidya	Pt molecular biologist, consultant	Hyderabad, AP
2	apollo diagnostics and healthcare ltd	Dr Vasavi Narayanan	head, deptt of cytogenetics	Hyderabad, AP
3	Dr Anjal Reddy memorial hospital	Dr Panchakshari	certified genetic counselor	South
4	KYVOR Genomics	Ms Ankita	certified genetic counselor	South
5	Strand lifesciences	Sunitha N	genetic counselor	South
6	Molecular diagnostics counseling care and research center (MDCRC)	Manikandan Suraj	Sr genetic counselor- lead counseling- MDCRC	Coimbatore
7	CCMB, Hyderabad	Rajan Kumar Jha	PhD- SRF	Hyderabad, AP
8	Institute of genetics and hospital for genetic diseases, Osmania university	Dr A Venkateshwari	Director I/C	Hyderabad, AP

9	Genes 2 me	Dr Priyadarshini Pande	BM/Lab Director	North
10	Strand lifesciences	Dr Mansi Vishal	genetic counselor-III	Gujarat (West)
11	LV Prasad	Akhilesh N Pujar	Genetic counseling consultant at LUPEI	South
12	Vasavi Medical and research center	Dr Kodati Vijaya Lakshmi	consultant gynaecologist and geneticist	Telangana
13	cipher healthcare pvt ltd	Parichay SR	Genetic counselor	south
14	Kamineni Hospital	Gayatri R Iyer	INSPIRE fellow amd genetic counselor (LEVEL ii)	Hyderabad, AP
15	institute of medical genetics, cardiff university school of medicine,UK	Prof Dhavendera Kumar	professor and clinical geneticist	United Kingdom
16	kamineni fertility center	A Swarna Kumari	MSC,PGDGC	Hyderabad, AP
17	Credence Daignostic center	Dr Subhadra Poornima	Sr scietific officer/genetic counselor	south
18	osmania university	Rachel AJ	Advisor(research)	central india
19	Neuberg Diagnostics Pvt Ltd	Hemanth K Prasad	Senior Manager Scientific Application and support	PAN India
20	JIPMER	Dr Reena Gulati	Additional Professor, Deppt of Paediatrics	Pondicherry
21	Institute of genetics and hospital for genetic diseases, Osmania university	Dr M Sujatha	Senior Consultant geneticist and genetic counselor	Hyderabad
22	caring institute	Dr Shelly Mahajan	Clinical Lead, Genomics	Mahajan imaging, CARING institute
23	AIIMS Delhi	Dr Shweta Birla	Post doctoral fellow(genomics and genetics)	Delhi
24	Kamineni Hospital	Aruna Priya	genetic counselor	Hyderabad, AP
25	Kamineni Hospital	keerthi konda juturu	genetic counselor	Hyderabad, AP
26	osmania university	Rachel AJ	Advisor(research)	central india
27	PGDC Medical and Genetic Counseling Kamineni Hospital	B Suruthi Abirami	PGDC	LB Nagar, Hyderabad Telangana 500068
28	Kamineni Hospitals Pvt Ltd	Bhumika Bhagwani	PGDC Genetic counseling	North
29	St. George's University of London	Prof Shirley Hodgson	Prof. of Cancer Genetics	United Kingdom
30	Metropolis Healthcare	Dr Jaya Vyas	Consultant- medical genetics	Mumbai, South

31	Division of Human Genetics, St John's National Academy of Health Sciences	Dr Veronica Preetha Tilak	Jr Consultant/ Incharge of Medical Genetics	South
32	Longevity Labs Pvt Ltd	Mr. K.C. Anil	Founder, Longevity labs	South
33	Vellore Institute of Technology (VIT), Vellore 632014	Dr Radha Saraswathy	Senior Professor, Dept of Biomedical Sciences	South
34	The Board of Genetic Counseling, India	Dr. Q. Annie Hasan	President, The Board of Genetic Counseling, India	Telangana

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2023	100	50				
2024	200	100				
2025	300	150				

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

- 1.
- 2.

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available:

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners		
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice		
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks
HSS/N8713: Collect detailed patient and family history to draw a pedigree	Obtain and record a comprehensive clinical and family history of the patient	18	20	10	10	58
	Prepare a pedigree chart to assess inheritance patterns	18	20	10	10	58
Nos Total		36	40	20	20	116

HSS/N8714: Assess risk for genetic disorders or syndromes	Assess the probability/ risk of a genetic condition or carrier status	32	15	10	30	87
	Identify suitable genetic/genomic tests	30	15	10	30	85
	Carry out pre-test counselling while interpreting preliminary test results	20	15	10	30	75
	Nos Total	82	45	30	90	247
HSS/N8715: Provide counselling on various genetic tests and coordinate for their execution	Provide detailed information on various aspects of pre-natal and post-natal screening/diagnostic genetic diseases	17	15	10	20	62
	Coordinate with the appropriate specialist/ medical geneticist to carry out identified confirmatory diagnostic genetic test	25	15	22	50	112
	Nos Total	42	30	32	70	174
HSS/N8716: Interpret the inferences of the genetic tests and carry out post- test counselling	Interpretation and documentation of results of the genetic tests	30	15	10	30	85
	Carry out post-test counseling	10	15	10	20	55
	Nos Total	40	30	20	50	140
HSS/N8717: Provide need- based genetic counselling to the patient and their family members	Prepare the patient and the paperwork required for counseling	20		10	20	50
	Provide appropriate genetic counseling to patients and their family members	17		15	20	52
	Nos Total	37	0	25	40	102
HSS/N8718: Promote genetics related awareness	Educate the fellow healthcare providers about the merits of genetic counseling	25	15	0		40
	Identify and educate the at-risk population regarding the need for genetic counseling	15	10	10		35
	Nos Total	40	25	10	0	75

HSS/N9615 Maintain a professional relationship with patients, colleagues and others	Communicate and maintain professional behavior with co-workers and patients and their families	5				5
	Work with other people to meet requirements	5				5
	Establish and manage requirements, planning and organizing work, ensuring accomplishment of the requirements	3				3
	Nos Total	13	0	0	0	13
HSS/N9616 Maintain professional & medico-legal conduct	Maintain professional behavior	5				5
	Act within the limit of one's competence and authority	7				7
	Follow the code of conduct and demonstrate best practices in the field	7				7
	Nos Total	19	0	0	0	19
HSS/N9618 Follow biomedical waste disposal and infection control policies and procedures	Classification of the waste generated, segregation of biomedical waste, proper collection and storage of waste	5	10	3		18
	Complying with effective infection control protocols that ensures the safety of the patient(or end-user of health-related products/services)	8	10	5		23
	Maintaining personal protection and preventing the transmission of infection from person to person	8	10	5		23
	Nos Total	21	30	13	0	64
DGT/VSQ/N0103, V1.0, Employability Skills (90 Hours)	Introduction to Employability Skills	1			1	2
	Constitutional values – Citizenship	1			1	2
	Becoming a Professional in the 21st Century	1			3	4

	Basic English Skills	3			4	7
	Career Development & Goal Setting	1			2	3
	Communication Skills	2			2	4
	Diversity & Inclusion	1			1	2
	Financial and Legal Literacy	2			3	5
	Essential Digital Skills	3			5	8
	Entrepreneurship	2			3	5
	Customer Service	1			2	3
	Getting ready for apprenticeship & Jobs	2			3	5
	NOS Total	20	0	0	30	50
	Grand Total	350	200	150	300	1000

Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

<1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

On the Job:

1. Each module will be assessed separately.
2. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos/Photographs of Trainees during OJT
 - OJT Log Book/Portfolio
3. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS) Qualification	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do. A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards

Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf

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