

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: 6.5

Submitted By:

Healthcare Sector Skill Council

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

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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: QG-6.5-HE-04217-2025-V2-HSSC		Qualification Name of existing/previous version: Genetic Counselor						
4. a. OEM Name b. Qualification Name (Wherever applicable)									
5. National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-6.5-HE-04217-2025-V2-HSSC		6. NCrF/NSQF Level: 6.5						
7. Award (Certificate/Diploma/Advance Diploma/ Any Other) (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Skill Certificate								
8. Brief Description of the Qualification	The individual 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. Individuals would keep oneself abreast of the latest technologies and future opportunities of broadening the scope of work in context of recent advancements in human genomics and genetic counselling. They should be able to apply genomics in different medical specialties, personalized/precision medicine and disease research.								
9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG Degree completed (Medical Graduate (MBBS/ BHMS/ BAMS/ BUMS)/Graduate (Nursing/ Allied Health Professionals)/BDS/life sciences/clinical psychology/ biotechnology/ pharmacy/ B. Tech Biotechnology or genetics)</td> <td></td> </tr> </tbody> </table>			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	UG Degree completed (Medical Graduate (MBBS/ BHMS/ BAMS/ BUMS)/Graduate (Nursing/ Allied Health Professionals)/BDS/life sciences/clinical psychology/ biotechnology/ pharmacy/ B. Tech Biotechnology or genetics)	
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)							
1	UG Degree completed (Medical Graduate (MBBS/ BHMS/ BAMS/ BUMS)/Graduate (Nursing/ Allied Health Professionals)/BDS/life sciences/clinical psychology/ biotechnology/ pharmacy/ B. Tech Biotechnology or genetics)								

		b. Age: 21 years	
10	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	40	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 (Refer Blended Learning Annexure for details)	

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14	Aligned to NCO/ISCO Codes (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 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: 8th May 2025	24. Validity Duration: 3 years	25. Next Review Date: 8th May 2028

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.	Collect detailed patient and family history to draw a pedigree	HSS/N8713, 3.0	Core	6.5	7	87	60	63	0	210	53	20	20	40	133	10
2.	Assess risk for genetic disorders or syndromes	HSS/N8714, 3.0	Core	6.5	4	30	30	60	0	120	80	60	30	60	230	20
3.	Provide counselling on various genetic tests and coordinate for their execution	HSS/N8715, 3.0	Core	6.5	1.3	09	30	0	0	39	45	30	35	60	170	20
4.	Interpret the inferences of the genetic tests and carry out post- test counselling	HSS/N8716, 3.0	Core	6.5	5	27	60	63	0	150	55	20	20	45	140	15
5.	Provide need- based genetic counselling to the patient and their family members	HSS/N8717, 3.0	Core	6.5	12.7	186	135	60	0	381	37	30	25	35	127	10
6.	Promote genetics related awareness	HSS/N8718, 3.0	Core	6.5	6	36	90	54	0	180	40	0	10	35	85	10
7.	Comply with infection control and biomedical waste disposal policies	HSS/N9620, 2.0	Non-Core	4	1	15	15	0	0	30	20	10	10	25	65	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)
8.	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					40	480	420	300	0	1200	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

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>Graduate (Nursing/ Allied Health Professionals)/Dentistry/life sciences/clinical psychology/ Biotechnology or genetics) with 6-year experience working in hospitals with Genetics units and 5 year of teaching experience</p> <p>Or</p> <p>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 5-year experience working in hospitals with Genetics units and 4 year of teaching experience</p> <p>Or</p> <p>Medical Graduate (MBBS Or Medical Geneticists) with 4 years' experience working in hospitals with Genetics units and 3 years of teaching experience</p>
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<p>Graduate (Nursing/ Allied Health Professionals)/Dentistry/life sciences/clinical psychology/ Biotechnology or genetics) with 7 year's experience working in hospitals with Genetics units and 5 year of teaching experience</p> <p>Or</p> <p>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 6-year experience working in hospitals with Genetics units and 4 year of teaching experience</p> <p>Or</p> <p>Medical Graduate (MBBS Or Medical Geneticists) with 5-year experience working in hospitals with Genetics units and 3 year of teaching experience</p>
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	

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<i>Graduate (Nursing/ Allied Health Professionals)/Dentistry/life sciences/clinical psychology/ Biotechnology or genetics) with 7 years experience working in hospitals with Genetics units and 5 year of teaching experience</i> <i>Or</i> <i>Postgraduate (M. Sc) in Life Sciences (Nursing, Dentistry, Pharmacy)</i> <i>Or M.Sc. in Medical Psychology Or M. Sc in Biotechnology Or M. Tech in Biotechnology with 6-year experience working in hospitals with Genetics units and 4 year of teaching experience</i> <i>Or</i> <i>Medical Graduate (MBBS Or Medical Geneticists) with 5-year experience working in hospitals with Genetics units and 3 year of teaching experience</i>
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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)	Graduate (Nursing/ Allied Health Professionals)/Dentistry/life sciences/clinical psychology/ Biotechnology or genetics) with 8-year experience working in hospitals with Genetics units and 5 year of teaching experience Or 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 - year experience working in hospitals with Genetics units and 4 year of teaching experience Or Medical Graduate (MBBS Or Medical Geneticists) with 5-year experience working in hospitals with Genetics units and 3 year of teaching 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 (<i>Mandatory</i>)	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 a 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 skills, with clear choice of procedures in familiar context Refer to the evidence provided in the adjacent column. Hence it falls under Level 6.</p>	6.5

	<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 evidence provided in the adjacent column. Hence it falls under Level 6.</p>	6.5

	<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 applications, using appropriate rules and tools, 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 a 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 evidence provided in the adjacent column. Hence it falls under Level 6.</p>	6.5
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 personnel concerned 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 skills; understanding of social, political; and some skill of collecting and organizing information, communication</p> <p>Refer to the evidence provided in the adjacent column. Hence it falls under Level 6.</p>	6.5

	<ul style="list-style-type: none"> • Collect adequate information from patients/ relatives/ referring physicians • 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, updating 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>	6.5

	<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	St. George's University of London	Prof. Shirley Hodgson	Emeritus Prof. of Cancer Genetics	London
2	ASTER CMI HOSPITAL	Dr Rohini Paul	Chief Nursing Officer	Bangalore
3	Tata Institute for Genetics and Society	Dr. Gayatri Rangarajan Iyer	Scientist II, Tata Institute for Genetics and Society, Joint Secretary, Board of Genetic Counseling India	Bangalore
4	Life care Hospital	Dr H Abdul Kareem	BAMS, MD PHD	Bangalore
5	NA	Ms Jaimika Patel	Assistant Professor	Noida
6	Aurobindo EMS, Hyderabad	DR. Parashuramulu Ch K	Training Manager	Hyderabad

7	Prime Life Hospital	Dr Kashwar Zamani	BAMS, MHA	Bangalore
8	NA	Dr Mohammed Abdul Muqsit	Emergency Physician Doctor(MBBS, FEM)	Hyderabad
9	Bodycare Wellness Center	Dr B. Nadeem	Ayurvedic Consultant	Hyderabad
10	Om Prakash Ayurveda Clinic and Panchkarma Center	Dr Pavan Kumar Jain	BAMS, MD	Karnataka
11	NA	Dr Sabah Bin Saleh	MBBS, FEM (UK)	Hyderabad
12	Safercare CIHS	DR. VIJAYANAND BASUTHKAR	HOD	Hyderabad
13	Sri Sai Hospital, Siwan	Dr. Rameshwar Kumar	Founder & Chairman, Orthopedic & Joint Replacement Surgeon	Bihar
14	Emversity	Ms Anja Stodtmeister	Head of Nursing Excellence	Bangalore
15	Dr. Lalpath Labs	Pragyan Saikia	Genetic Counselor	Gurugram
16	Human Genetics Research Lab,Central University of Jammu Jammu and Kashmir	Prof. Swarkar Sharma	Group Head	Jammu & Kashmir
17	Sri Guru Ram Das University of Health Sciences	Prof Amarjit Singh Bhanwer	Professor and Head Department of Genetics	Amritsar
18	Utage Child Development Center	Dr Prashant Utage	Sr Paediatric Neurologist	

19	KIMS HOSPITAL pvt ltd	Dr pavani Upenderum	Sr Genetic Counsellor	
20	Tata Institute for Genetics & Society	Dr Gayatri Iyer	Scientist II,	Bangalore
21	St John's medical College	Dr Preetha Tilak	Clinical Geneticist	Bangalore
22	Maulana Azad National Urdu University, Gachibowli, Hyderabad	Prof Parveen Jahan	professor, Dept of Zoology, School of sciences	Hyderabad

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
2026	70	50				
2027	150	100				
2028	200	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
2022-23	2022-23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2023-24	2023-24	12	10	10		12							
2024-25	2024-25	657	614	573		119							

Applicable for revised qualifications only, data to be provided year-wise for the 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:

National Occupational Standards (NOS)	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total
HSS/N8713: Collect detailed patient and family history to draw a pedigree	Obtain and record a comprehensive clinical and family history of the patient	30	10	10	20	70
	Prepare a pedigree chart to assess inheritance patterns	23	10	10	20	63
	Nos Total	53	20	20	40	133
HSS/N8714: Assess risk for genetic disorders or syndromes	Assess the probability/ risk of a genetic condition or carrier status	30	20	10	20	80
	Identify suitable genetic/genomic tests	30	20	10	25	85
	Carry out pre-test counselling while interpreting preliminary test results	20	20	10	15	65
	Nos Total	80	60	30	60	230
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	20	15	10	30	75
	Coordinate with the appropriate specialist/ medical geneticist to carry out identified confirmatory diagnostic genetic test	25	15	25	30	95
	Nos Total	45	30	35	60	170
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	10	10	25	75
	Carry out post-test counseling	25	10	10	20	65
	Nos Total	55	20	20	45	140
HSS/N8717: Provide need-based genetic counselling to	Prepare the patient and the paperwork required for counseling	20	15	10	20	65

the patient and their family members	Provide appropriate genetic counseling to patients and their family members	17	15	15	15	62
	Nos Total	37	30	25	35	127
HSS/N8718: Promote genetics related awareness	Educate the fellow healthcare providers about the merits of genetic counseling	25	0	0	20	45
	Identify and educate the at-risk population regarding the need for genetic counseling	15	0	10	15	40
	Nos Total	40	0	10	35	85
• HSS/N9620: Comply with Infection Control and Bio Medical Waste Disposal Policies	Management of Healthcare Waste (Biomedical and General waste)	10	5	5	15	35
	Infection control practices	10	5	5	10	30
	NOS Total	20	10	10	25	65
• 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	30	0		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 for dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos/Photographs of Trainees during OJT
 - OJT Logbook/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)	NOS define the measurable performance outcomes required by an individual engaged in a particular task. They list what an individual performing that task should know and do.
Qualification	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 based on 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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