

QUALIFICATION FILE

Geo-Spatial Surveying Supervisor

☒ 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: 5.0

Submitted By:

National Institute for Geo-informatics Science & Technology

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Additional Surveyor General,

NIGST, Survey of India, Uppal, Hyderabad -500039

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Section 1: Basic Details

1.	Qualification Name	Geo-Spatial Surveying Supervisor																				
2.	Sector/s	Aerospace & Aviation																				
3.	Type of Qualification: ☒ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved)		Qualification Name of existing/previous version:																		
4.	a. OEM Name b. Qualification Name (Wherever applicable)																					
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-05-AA-04370-2025-V1-NIGST	6. NCrf/NSQF Level: 5																			
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Geo-Spatial Surveying Supervisor																				
8.	Brief Description of the Qualification	The individual will be capable of supervising data collection using advanced equipment such as Electronic Total Stations, GNSS, Digital Levels, and UAVs/Drones, and will ensure accurate data processing, visualization, and analysis using GIS software																				
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>12th pass or equivalent with 2 years of any combination of NTC/NAC/CITS or equivalent.</td> <td>1-year relevant experience</td> </tr> <tr> <td>2.</td> <td>12th Grade Pass or equivalent</td> <td>4 -years relevant experience</td> </tr> <tr> <td>3.</td> <td>Completed 3-year diploma after 10th</td> <td>2-year relevant experience</td> </tr> <tr> <td>4.</td> <td>Previous relevant Qualification of NSQF Level 4.5</td> <td>2 years relevant experience</td> </tr> <tr> <td>5.</td> <td>Previous relevant Qualification of NSQF Level 4</td> <td>4 years relevant experience</td> </tr> </tbody> </table> Relevant experience in geo-spatial domain			S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	12th pass or equivalent with 2 years of any combination of NTC/NAC/CITS or equivalent.	1-year relevant experience	2.	12 th Grade Pass or equivalent	4 -years relevant experience	3.	Completed 3-year diploma after 10th	2-year relevant experience	4.	Previous relevant Qualification of NSQF Level 4.5	2 years relevant experience	5.	Previous relevant Qualification of NSQF Level 4	4 years relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																				
1.	12th pass or equivalent with 2 years of any combination of NTC/NAC/CITS or equivalent.	1-year relevant experience																				
2.	12 th Grade Pass or equivalent	4 -years relevant experience																				
3.	Completed 3-year diploma after 10th	2-year relevant experience																				
4.	Previous relevant Qualification of NSQF Level 4.5	2 years relevant experience																				
5.	Previous relevant Qualification of NSQF Level 4	4 years relevant experience																				
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrf))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): I																			

12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	No																						
13.	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒ Offline ☐ Online ☐ Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>252</td> <td>348</td> <td>0</td> <td>0</td> <td>600</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	252	348	0	0	600	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	252	348	0	0	600																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO 2165.0200 (Surveyor, Topographical) NCO 2165.0400 (Surveyor, Photogrammetry) NCO 2165.9900 (Cartographers and Surveyors, other)																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Professional (in the firms working in Geospatial domain) • Surveying Manager (NSQF level 6) • Geospatial consultant / specialist (NSQF Level 6.5)																						
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	☐ Yes ☒ No URLs of similar Qualifications: N.A.																						
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No																						
19.	How Participation of Women will be Encouraged	This course is not gender specific. However, this course will empower women by creating self-employment as a Geo-Spatial surveying supervisor.																						
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☐ Yes ☒ No																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☒ No Colleges ☒ Yes ☐ 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: National Institute for Geo-informatics Science & Technology (NIGST) Email: nigst.hyd@surveyofindia.gov.in Contact No.: 040-27201503 Website: https://nigst.surveyofindia.gov.in (under upgradation)																						
23.	Final Approval Date by NSQC: 18-07-2025	24. Validity Duration: 3 years			25. Next Review Date: 17-07-2028																			

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/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Theory	Practical (Field+Lab)	OJT-Man.	OJT-Rec.	Total	Th.	Practical (Field+Lab)	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Supervise GNSS-based horizontal control surveys ensuring accuracy across all methods.	SOI/AAS/N0101	Core	5	3	36	54		-	90	50	50	-	-	100	15
2.	Oversee Total Station surveys for horizontal control and detail mapping.	SOI/AAS/N0102	Core	5	2	14	46		-	60	50	50	-	-	100	10
3.	Monitor vertical control surveys conducted using Digital Levels.	SOI/AAS/N0103	Core	5	2	20	40		-	60	50	50	-	-	100	10
4.	Coordinate and validate field data collection activities.	SOI/AAS/N0104	Core	5	1	4	26		-	30	50	50	-	-	100	5
5.	Supervise cadastral surveys ensuring spatial data accuracy.	SOI/AAS/N0105	Core	5	2	28	32		-	60	50	50	-	-	100	10
6.	Manage 3D data generation using UAV, photogrammetry, and LiDAR basics.	SOI/AAS/N0106	Core	5	4	34	86		-	120	50	50	-	-	100	20

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Theory	Practical (Field+Lab)	OJT-Man.	OJT-Rec.	Total	Th.	Practical (Field+Lab)	Proj.	Viva	Total	Weightage (%) (if applicable)
7.	Ensure GIS maps are produced as per design parameters and templates.	SOI/AAS/N0107	Core	5	4	56	64		-	120	50	50	-	-	100	20
8.	Employability skills	DGT/VSQ/N0102	Core	5	2	60	0		-	60	50	0	-	-	50	10
Duration (in Hours) / Total Marks					20	252	348		-	600	400	350	-	-	750	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF 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/NS QF 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)
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: 70 % (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)	Minimum of 3 years' experience (1 year as trainer) after UG in Geoinformatics/Geoscience related stream.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Minimum of 5 years' experience (1 year as trainer) after UG in Geoinformatics/Geoscience related stream.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure 2)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Not Applicable

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum of 3 years' experience after UG in Geoinformatics/Geoscience related stream.
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum of 2 years' experience after UG in Geoinformatics/Geoscience related stream.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Minimum of 5 years' experience after UG in Geoinformatics/Geoscience related stream.
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ 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): No
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2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes. Para 6.2 of National Geospatial Policy 2022 mandates to introduce a system to certify and register qualified surveyors. Copy Enclosed.
4.	Number of Industry validation provided: seventeen
5.	Estimated nos. of persons to be trained and employed: 900
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes. Minutes of meeting of 8.2.2024 under the chairmanship of Secretary, DST is enclosed

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>	See Annexure -1
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	See Annexure -2
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	See Annexure – 6
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	See Annexure – 7
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is “Blended Learning”)</i>	Not Applicable.
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Not Applicable.
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Attached as separate annexure-I
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	See Annexure – 8
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	See Annexure – 8
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	See Annexure – 6 & 7
12.	Any other document you wish to submit:	NGP 2022 document attached.

Annexure 1: 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 - Multidisciplinary and specialized knowledge - Possesses broad and deep knowledge and skills to solve problems in specialized fields.	- Possesses knowledge in multidisciplinary contexts, broadly, within the chosen fields of technology/ skills/ job role. - Deeper knowledge and understanding of specialized field of technology / skills/ job role and its underlying Principles. - Acquired specialized knowledge and a range of cognitive and practical skills to accomplish tasks like basic design, prototyping, testing so as to solve a problem by selecting appropriate information, methods, tools, and materials.	The learner requires to demonstrate advanced multidisciplinary and specialized knowledge in Geospatial data collection using latest equipment like Electronic Total Station, Global Navigation Satellite System, Digital Levels, Unmanned Aerial Vehicle/ Drone and processing of the data thus collected and can carry out visualisation and analysis using a GIS software. The learning outcomes of different modules include the application of advanced knowledge and skills on a wide range of sources for identifying problems and issues relating to the chosen fields of learning, and future improvements. Hence NSQF level 5 for this descriptor.	5
Professional and Technical Skills/ Expertise - Range of skills along with specialized domain skills - Excellent cognitive skills and technical prowess utilized to perform complex tasks with ease, project management expertise, and adept at data analysis for informed decision making.	- Demonstrates cognitive specialized professional and technical skills required for performing and accomplishing difficult tasks relating to the chosen field/s of technology / skills/ job role; successfully applying techniques in routine or non-routine - Possesses a range of professional and technical skills, displays clarity of knowledge and practice in broad range of activities/tasks. - Project Management Skills - Skill to clearly identify the relevant tools or sometimes improvise the available tools and techniques; and has advance knowledge of materials in difficult situations and different contexts. - Very good in data collecting organizing information, analysis and communication of results for informed decision making.	The learner is required to demonstrate the professional and technical skills required for performing and accomplishing complex tasks right from project conception to completion in diverse fields of Geospatial technology. The learner can Identify, assess and source datasets from a range of technologies (including laser scanning remote sensing and GIS to meet the client requirements and assess quality and fitness for purpose. Hence NSQF level 5 for this descriptor.	5
Aptitude, mind-set, soft skills, employment readiness & entrepreneurship skills: - Entrepreneurial mindset, self-management - A versatile professional with excellent communication, digital and financial literacy, ethical values, self-management	- Possesses excellent oral and written communication and collaboration skills for clearly taking the vision of the leaders to the shop floor level workforce. - Possesses very good Digital, Financial and Legal Literacy to use them effectively - Has a good understanding the constitutional, humanistic, ethical, and moral values. - Organisation and Time Management - Very good in complex calculations, and mathematical and financial analysis skills for applied solutions.	The learner is required to demonstrate the ability to manage complex professional and technical activities and own full responsibility for the output. Respond appropriately to client requirements, supervise tasks and others, adopt a strong safety culture and ensure effective conflict avoidance. Hence NSQF level 5 for this descriptor.	5

and may have entrepreneurial mindset.	• Has well informed practical understanding of the social, political and work environment. • Exercise self- management within the work contexts. • Emotional Intelligence • May have an entrepreneurial Mind-set for creating a startup/ small business and its end-to-end management.		
Broad Learning Outcomes • Judgement / decision making – specialized • A skilled professional with technical expertise, adept at solving complex problems and improving output.	• Demonstrates a wide range of specialized professional and technical skill in broad range of activity involving standard and non-standard practices. • Apply the acquired specialized knowledge and a range of cognitive and practical skills to accomplish tasks like basic design, prototyping, testing so as to solve problems by selecting appropriate information, methods, tools, and materials. • Communication and collaboration skills to act as a layer between the senior management and workforce/ shopfloor. • Should be able to listen and understand properly and present complex information in a clear and concise manner • make judgement and take decision, based on the analysis and evaluation of information, for determining solutions to a variety of unpredictable problems associated with the chosen fields of learning, • Takes responsibility for the nature and quality of outputs. • Is able to work on processes to improve the quality of outputs • Can analyse and synthesize ideas • Uses discretion and judgement over a range of known and innovative.	The learner is required to demonstrate his ability to apply the advance theoretical knowledge and specialized professional and technical skills in managing complex professional and technical activities like selecting the right kind of technology for the project and required human and material resources and extracting the quality work from them. Hence NSQF level 5 for this descriptor.	5
Responsibility • Team leader – Junior technical supervisor, Technical supervisor or junior/ deputy manager. • Highly skilled Technical Supervisor responsible for achieving tangible outcomes, managing change, building teams, and mentoring the workforce.	• Is accountable for determining and achieving personal and /or group tangible outcomes • Handles/ adapts/ accommodates change requirements and change management at the ground/ shop floor level. • Team Building • Manages processes and procedures within broad parameters for defined activities. • Supervises the routine work of others, takes the required responsibility for the evaluation and improvement of work or study activities.	The learner is required to demonstrate his ability to lead the project independently with proper work delegation and supervising their work and apply the advance theoretical knowledge and taking responsibility for all the outcomes of the project. The learner can Effectively manage projects and tasks to specified programmes, targets and budgets and show independent judgement and responsibility. Hence NSQF level 5 for this descriptor.	5

Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 20

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
A. GENERAL TOOLS & EQUIPMENTS			
1	Desktop computer	CPU: 64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch). Licensed latest Windows Operating System with preinstalled Office 365 latest version.	10
2	Laptop	CPU: 64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Licensed Latest Windows Operating System with preinstalled Office 365 latest version.	2
3	GNSS Equipment with software	Static and RTK/NRTK enabled	2
4	Remote Sensing software (with latest configuration)	ILWIS or equivalent open-source software	13
5	GIS software (with latest configuration)	QGIS or equivalent open-source software	13
6	UAV (Drone) suitable for Mapping application with DGCA approved Type certification along with complete kit including GPS module, Batteries, Payload (Optical/LiDAR), Communication system, cables and all other accessories.	Category of UAS: Rotorcraft /Wing type Sub-category of UAS: RPAS Class of UAS: Small Structure: Quad or Hexa Copter Flight Modes: Manual, Semi-autonomous and fully autonomous Battery Fly Time: 40 min. Smart Battery fails safe: RTH With 3rd party Insurance	2 sets The list of accessories vary with Category, Class and Type of UAS(Drone). The list provided is only indicative.
7	TV for simulation classroom	(55 inches) 4K Ultra HD Certified Android LED TV JSW55ASUHD (Mystique Black) for simulation purposes.	2
8	Simulator to teach drone flying (flight simulator)	FPV DRONE RACING simulator (on steam) & FPV FREERIDER (on steam).	2
9	Electronic Total Station along with two reflectors and other accessories including the downloading software		4 sets
10	Auto level including a pair of staves with all accessories and downloading software		4 sets
11	Digital Level with barcoded staves		4 sets
12	Echo sounder		2
13	Current meter		2

14	Plane table with stand, accessories & water proofing cover		5
B. LIST OF OTHER ITEMS			
1	Split type Air Conditioners		
2.	White Board		
3	Student tables	2- 3 seater	10
4	Student Non revolving Chair		20
5	Faculty Table		1
6	Faculty Chair		1
7	Wi-Fi Router/24 Port Switch wireless connectivity option		1+1
8	Structured cabling (to enable working with wired networks too for practical)		1
9	UPS		As required
10	Survey Umbrellas		10
11	Network Monochrome Laser Printer & Scanner	A3 size	1
12	LCD projector with matte (antiglare) screen/Smart Interactive Board		1
13	Standalone Hard Disks 1 TB or Higher for data storage and transfer		2

Classroom Aids

The aids required to conduct sessions in the classroom are:

- 1.
- 2.

Annexure 3: 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	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	DALE TECHNOLOGIES PRIVATE LIMITED	S. Koteswara Rao	Director	H.No. 7-2-1800/W309, Vasavi Dreams Apts, Czech Colony, Sanath Nagar, Hyderabad-500018, Telangana	9247337888	koti@dale-technologies.com	
2	Garuda UAV Solutions Pvt. Ltd.	Somdutta Mishra	Senior Exective-BD	Assotech Business Cresterra, Unit No. 301 to 318 Third Floor Tower-2, Plot No. 22 Sec-135, Noida, Uttar Pradesh-201304	9354915032	somdutta.mishra@garudauav.com	
3	Marvel Geospatial Solutions Pvt. Ltd.	K Ravi	Vice President	59 22/1/B, Shapoor Hall, Shapoorwadi, Adarsh Nagar, Hyderabad 500063	73961 44334	bd@marvelgeospatial.com	
4	Matrix Geo Solutions Limited	Shailesh Kumar Pathak	Sr. Manager-Business Development	A-1/87, 3rd Floor, Sewak Park, Uttam Nagar, South	7531007100	info@matrix-geo.com	

				West Delhi, Delhi- 110059			
5	Tojo Vikas International Pvt. Ltd.	Apoorva Rishi	Director	Plot No.4, 1st Floor, Adchini, Mehrauli Road, New Delhi- 110017	011-41629404, 45087326	apoorva.rishi@tojovikas.com	
6	NeoGeoInfo Technologies Pvt Ltd	Aditya Sirohi	VP	NeoGeoInfo Technologies Ltd., Corp. Off.:162-164,1st Floor, JMD Megapolis, Sohna Rd Sec- 48, Gurugram, Haryana- 122018	9849314425	aditya.sirohi@neogeoinfo.com	
7	IIC Technologies Private Limited.	Dr. Ravi Kumar DVS	Vice President - Government	8-2-350/5/B- 22, Road No 3, Banjara Hills, Hyderabad, Telangana- 500034, India	9866005290	ravi.dharmavarapu@iictechnologies.com	
8	Pureways Infra Pvt Ltd	Manish Kumar Sharma	HOD (Geospatial)	FH - 1, A Block, Vardhman Grand Plaza, Mangalam Place, Rohini, Delhi, 110085	8595925378	manishsharma@pureways.co.in	
9	Saptrishi Consultancy Services Limited	SATVINDER SINGH FARMA	CHIEF OPERATING OFFICER	A-21, Sector-5, Noida-201301 (U.P.)	9958698949	infoscs@jkrisk.in	
10	Pioneer Foundation Engineers Pvt Ltd	Tabish Kalsekar	General Manager	B2, 509, Boomerang, Chandivali Farm Road, Chandivali, Andheri East- Mumbai 400072	9920903578	Sales@pfepl.com	

11	Excel Geomatics Pvt Ltd	RAVI RANJAN SHUKLA	Head- Business Development	A- 67 SF, Parsvnath Paradise, Mohan Nagar, GHAZIABAD 201 007, Uttar Pradesh (INDIA)	9868456311	ravi.shukla@excelgeomatics.com; info@excelgeomatics.com	
12	Hexagon India	Nitin Ghag	Sr. Product Manager (Optical Solution)	Vatika Atirum, 2 nd Floor, Tower-B, Golf Course Road, Sector 53, Gurgram 122022, Haryana, India	9870202793	Nitin.ghag@hexagon.com	
13	Kesowa Infinite Ventures Private Limited	Prayush Poddar	Director	AMP Vaisaakkhi, AG 112, Salt Lake City, Sector 2, Kolkata 700091	9874042345	pp@kesowa.com	
14	Drone Destination Limited	Anurag Bardiya	Sr. General Manager	Drone Destination Limited, NSIC Business Park, New Delhi, Delhi- 110020	8010467949	anurag.b@thedronedestination.com	
15	Aarav Unmanned Systems Pvt Ltd	Najeeb Sarwar	Project Manager	3, Jakkur Rd, MCECHS Layout Phase 2, Jakkuru Layout, Bengaluru, Karnataka 560064	7011923173	najeeb@aereo.io	
16	Prashant Advanced Survey LLP	Prashant Alatgi	Partner	0-207, 2 nd Floor, Bramha Boulevard Phase 1, CTS 11+12, Connaught	9890055670	prashantadvsurvey@gmail.com	

				Road, Near Sadhu Vaswani Chowk, Pune - 411001, Maharashtra, India.			
17	Allterra Solutions LLP	Ramesh Konchanda	General Manager	18 th floor, office no 1814-B, Magnum Global Park, Golf Course ext road, Sector 58, Gurugram, Haryana-122101	9440733561	Ramesh.konchada@allterra.co.in	

Annexure 4: 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	5	100	2	40	0	0
2027	15	300	6	120	0	0
2028	25	500	10	200	0	0

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

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: English

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools: Not Proposed.

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	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: 6 Detailed Assessment Criteria

NOS/Module Name	Assessment Criteria for Outcomes	Theory	Practical Marks	Project marks	Viva Marks
N0101: Supervise GNSS-based horizontal control surveys ensuring accuracy across all methods.	<i>Plan for GPS data collection.</i>				
	PC1. Choose the type of GNSS survey (Static or Kinematic) required based on project requirement.	10	0	-	-
	PC2. Plan for observation of GNSS data and parameters (i.e. Network mode, Radial method, observation duration, observation time, elevation mask, etc.) to achieve the required accuracy.	10	0	-	-
	PC3. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	5	0		
	PC4. Plan QA/QC planning for final horizontal control points.	5	0		
	<i>Perform GNSS data collection.</i>				
	PC5. Collect master station data (previously established GPS points, Survey of India GPS library, CORS station data or other) to be used as control points as per plan.	2	2		
	PC6. Locate master station on ground and create marking (permanent or temporary as per requirement) for unknown points.	2	2		
	PC7. Setup GNSS instrument and measure height of the instrument and observe GNSS data as per plan.	0	6		
	PC8. Download observed data and save in the required format (native or RINEX) as per plan.	0	5		
	<i>Process observed GNSS data.</i>				
	PC9. Setup software and input the observed GNSS data for processing.	2	5		
	PC10. Carryout baseline measurement	5	10		
	PC11. Adjust baseline for co-ordinate	5	10		
	PC12. Generate final report of horizontal control point.	2	5		
	PC13. Check accuracy requirement.	2	5		
	Module Total	50	50	-	-
N0102: Oversee Total Station surveys for	<i>Plan for Traverse using Total Station.</i>				
	PC1. Plan traverse to provide or extend the control point at a specified location.	5	0	-	-

horizontal control and detail mapping.	PC2. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	5	0	-	-
	PC3. Plan QA/QC planning for final horizontal control points.	5	0		
	<i>Data collection using Total Station.</i>				
	PC4. Identify two control station whose co-ordinates are known for setup of Total station or create two using GNSS survey method.	2	2		
	PC5. Setup Total station using known control points.	2	2		
	PC6. Start traversing and create temporary points in between and close the traverse at the same point or some known point.	2	10		
	<i>Traverse adjustment</i>				
	PC7. Perform traverse adjustment and generate report for final control value of unknown point within the permissible closing error limit.	5	5		
	PC8. Submit a report with new control points coordinates, proper sketch of traverse, error report etc.	3	5		
	<i>Plan for Detail survey using Total Station.</i>				
	PC9. Plan for detail survey i.e. list out the details which need to pick up. Plan for nearby provisioning of control points.	5	0		
	PC10. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	2	0		
	PC11. Plan QA/QC procedure.	2	0		
	<i>Data collection using Total Station.</i>				
	PC12. Identify two control station whose co-ordinates are known for setup of Total station or create two using GNSS survey method.	2	2		
	PC13. Setup Total station using known control points.	1	2		
	PC14. Start survey to pick up the details of the features, collect and store the data as per plan.	0	10		
	<i>Download and data representation</i>				
	PC14. Download data and save.	1	2		
	PC15. Prepare a map with necessary map template and legends.	3	10		
	<i>Design and calculate the various elements of curves</i>				
	PC16. Calculate the various elements of Horizontal and vertical curve.	2	0		
	PC17. Calculate the required elements for setting out of curve.	2	0		
	PC18. Select the proper method to stake out the curve / tunnel alignment as per design.	1	0		
	Module Total	50	50	-	-

N0103: Monitor vertical control surveys conducted using Digital Levels.	<i>Plan for vertical control using digital level.</i>				
	PC1. Plan vertical control survey route to connect the unknown height point from known point.	4	0		
	PC2. Plan for gravity data observation.	4	0	-	-
	PC3. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	3	0	-	-
	PC4. Plan QA/QC planning for final horizontal control points.	3	0		
	<i>Data collection using Digital Level.</i>				
	PC5. Check digital level calibration and collimation error and check the suitability of the instrument to start the work.	2	5		
	PC6. Start levelling from known/unknown points along the route, record data digitally or physically, create temporary bench mark and reach to the final bench mark as per planning.	2	10		
	PC7. Enter permanent and temporary benchmark details (i.e. written description, sketches, co-ordinates) used/created during levelling in a register as per provide format.	2	5		
	<i>Data collection using gravimeter.</i>				
	PC8. Check calibration and other parameters for suitability of instrument to observe gravity observation.	2	5		
	PC9. Collect, record and store gravity data on the levelling bench marks.	2	5		
	<i>Data download</i>				
	PC10. Download levelling data and save in required format.	2	2		
	PC11. Download gravity data and save it in required format.	2	2		
	<i>Data checking and adjustment</i>				
	PC12. Check levelling data to meet the specified criteria and provide a decision for acceptance or re levelling.	5	5		
	PC13. Check gravity data as per standard procedure and perform necessary correction.	5	3		
	PC14. Perform adjustment operation using accepted levelling and gravity data to obtain the final value of control points i.e. height.	10	5		
	PC15. Create final report for vertical control survey with final height of unknown stations with details of raw data collected, corrections and adjustments performed and details of temporary station with sketches as per standard practice.	2	3		

	Module Total	50	50	-	-
N0104: Coordinate and validate field data collection activities.	<i>Plan for feature and attribute collection.</i>				
	PC1. Plan for data collection (i.e. design of forms, fields and other necessary data required), store, and representation as per the user requirement.	10	0		
	PC2. Plan for base map, WFS or vector data for feature or attribute data collection.	10	0		
	PC3. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	5	0		
	PC4. Plan QA/QC procedure.				
	<i>Data collection using FDC.</i>				
	PC5. Prepare base map, WFS or vector data for feature or attribute data collection.	5	10		
	PC6. Setup FDC with all basic data stored or through web services.	5	5		
	PC7. Connect external GNSS for better accuracy if provisioned during planning.	2	5		
	PC8. Start survey to pick up the details of the features and fill their attribute in the designed fields. In case feature is already there fill up the attribute details in the respective fields.	3	10		
	<i>Download and data representation</i>				
	PC9. Check the feature and attribute data for its consistency with earlier data available and proceed as per the policy of data acceptance.	5	5		
	PC10. Download data and save.	2	5		
	PC11. Prepare a map with necessary map template and legends as per plan.	3	10		
	Module Total	50	50	-	-
N0105: Supervise cadastral surveys ensuring spatial data accuracy.	<i>Read, Create & modify cadastral maps and cadastral record</i>				
	PC1. Read the cadastral maps and other record.	10	5		
	PC2. Measure distance using cadastral maps.	5	5		
	PC3. Relaying the missing pillar based on survey data.	5	10		
	<i>Transform/convert cadastral map into GIS ready map.</i>				
	PC4. Scan the existing cadastral map.	5	5		
	PC5. Georeference the scanned cadastral map using ortho rectified image (ORI) or ground control points.	10	10		
	PC6. Digitize the georeferenced map and prepare a GIS ready map with attribute field as per project requirement.	5	10		
	PC7. Entry of attribute data into existing field.	5	5		

	<i>Use of UAV for Cadastral survey.</i>				
	PC8. Plan for Cadastral survey using UAV to generate ORI.	5	0		
	Module Total	50	50	-	-
N0106: Manage 3D data generation using UAV, photogrammetry, and LiDAR basics.	<i>Plan for capture of data (flight planning)</i>				
	PC1. Plan for data capture element like front overlap, side overlap, flight height, GSD based on project requirement.	2	0	-	-
	PC2. Plan for no. of ground control points and check points required for the georeferencing and QA/QC	2	0	-	-
	PC3. Plan QA/QC planning for final horizontal control points.	2	0		
	PC4. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	2	0		
	<i>Perform Aerial triangulation</i>				
	PC5. Geo-indexing of photos: Creation of photo ties, examination of overlaps, flight direction control planning on e-index.	2	0		
	PC6. Create Block file for the captured data.	2	3		
	PC7. Generate manual & automatic tie-points, measure GCP	2	2		
	PC8. Perform Bundle Block adjustment	2	2		
	<i>Create DSM, DEM, Contour and ORI</i>				
	PC9. Generate DSM as per project requirement.	2	2		
	PC10. Generate DEM as per project requirement.	2	2		
	PC11. Generate Contour as per project requirement.	2	2		
	PC12. Generate ORI as per project requirement.	2	2		
	<i>Extract 3D feature</i>				
	PC13. Set up for system for 3D feature extraction like setup of topo mouse, file in software etc	3	2		
	PC14. Extract 3D feature as per project requirement and save the data in required format.	2	2		
	<i>Mission Planning for Drone/UAV</i>				
	PC15. Plan mission to capture the data.	2	2		
	PC16. Plan for no. of ground control points and check points required for the georeferencing and QA/QC	2	1		
	PC17. Plan QA/QC method for final horizontal control points.	2	0		
	PC18. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	1	0		
	<i>Execute flight for data acquisition.</i>				
	PC19. Perform preflight checks including regulatory permission.	1	3		

	PC20. Execute flight as per flight plan.	1	5		
	PC21. Download flight data along with other necessary files i.e. flight logs, base station data.	0	2		
	PC22. Fill up all required/mandatory formats.	0	2		
	<i>Process acquired data.</i>				
	PC23. Geotag the drone data.	1	2		
	PC24. Generate DSM and export as per project requirement.	1	2		
	PC25. Generate DEM and export as per project requirement.	1	2		
	PC26. Generate ORI and export as per project requirement.	1	2		
	PC27. Generate Contour and export as per project requirement.	1	2		
	PC28. Generate 3D model and export as per project requirement.	1	2		
	<i>Mission Planning (LiDAR)</i>				
	PC29. Plan mission to capture the data.	1	0		
	PC30. Plan for no. of ground control points and check points required for the georeferencing and QA/QC	1	0		
	PC31. Plan QA/QC method for final horizontal control points.	1	0		
	PC32. Plan no. of resources required for the task i.e. instrument, software, manpower, vehicle etc.	1	0		
	<i>Open Lidar data in software.</i>				
	PC33. Open LAS data in software	1	2		
	PC34. Measure height from LAS data.	1	2		
	Module Total	50	50	-	-
N0107: Ensure GIS maps are produced as per design parameters and templates.	<i>Download and use open-source software and data</i>				
	PC1. Search download, install, open & utilize the open-source GIS software.	2	2		
	PC2. Download open-source and freely available raster and vector data from various sources like Survey of India, Bhuvan, USGS, Google earth, Street map etc.	2	2		
	<i>Geo-reference the raster data</i>				
	PC3. Open software and load the raster image/satellite image/ORI.	2	2	-	-
	PC4. Identify and mark the control point on input dataset and enter the known co-ordinate value.	0	2	-	-
	PC5. Geo-reference the input dataset using a proper georeferencing method.	5	3		

PC6.	Calculate the RMSE value of final geo-referencing process and check it against the permissible value.	5	2		
	<i>Create GIS file and spatial database.</i>				
PC7.	Create a file geodatabase/geopackage/shapefile and save it.	5	2		
PC8.	Install database software for geospatial data, create tables, connect it with GIS software and create user role management.	4	3		
PC9.	Create Schema including Domains & Sub-types to implement Spatial Data Model Structure (SDMS) as per project requirement.	5	3		
PC10.	Create new stylesheet and Customized symbols in a style-sheet using font symbols in third-party s/w, Configuring the Colour Table as per SOI/project required symbology.	2	3		
PC11.	Install SOI/project required, font-files and Attach SOI/project required Style-sheet.	0	2		
	<i>Extract feature from geo-referenced raster dataset as per SDMS with proper symbology.</i>				
PC12.	Interpret feature, choose right feature class/category.	3	2		
PC13.	Digitize and attach proper symbology.	2	3		
	<i>QA/QC of digitized data before map finalization.</i>				
PC14.	Create rule-based topology.	3	3		
PC15.	Run topological validation.	0	1		
PC16.	Correct error after topological validation, if any	0	2		
	<i>Prepare map layout as per template if any and print the map</i>				
PC17.	Create map layout in software as per project map template.	2	3		
PC18.	Create pdf file for printing in large format printers.	0	2		
	<i>QA/QC of printed map</i>				
PC19.	Examine the hard copy of map for omissions and mistakes. Check cartographic details and overlapping symbols, text placement and spelling correction etc.	2	1		
	<i>Create thematic map</i>				
PC20.	Create a large-scale thematic map as per project requirement.	2	3		
	<i>Transform Datum from one datum to another datum</i>				
PC21.	Perform datum transformation using 7 parameters.	2	2		
	<i>Convert co-ordinate from one system to another</i>				
PC22.	Perform co-ordinate transformation from one system to another.	2	2		
Module Total		50	50	-	-

Employability Skill	Perform Criteria as per standard adopted module	50	-	-	-
	Grand Total	400	350		

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Annexure 7: Assessment Strategy

Assessment Strategy

Overall assessment strategy: Assessment of the qualification evaluates trainees to show that they can carry out relevant tasks as per the defined learning outcomes and assessment criteria. The underlying principle of assessment is fairness and transparency. While assessing the trainee, assessor is directed to assess as per the defined assessment criteria against the learning outcomes. The evidence of the competence acquired by the trainees can be obtained by conducting theory and practical examinations, observing the trainees at work, asking questions and initiating formative discussions to assess understanding and evaluating records and reports.

Specific Arrangements for assessment:

- Assessment is outcome-based
- There are formative and summative assessments in Theory and Practical.
- Assessment is carried out in all modules.
- In addition to demonstrations of theory and practical knowledge, overall personality of the trainees is also assessed.
- Batches assigned to the assessment agencies for conducting the assessment on IP or email
- Assessment agencies send the assessment confirmation to VTP/TC
- Assessment agency deploys the ToA certified Assessor for executing the assessment.

Quality assurance activities:

- Question papers are set by external paper setters/ software generated
- Evaluation of Theory and Practical Examinations will be done by third-party agency /External Examiner.
- 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

. 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.

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

Method of verification or validation:

- Surprise visit to the assessment location

Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored until the forthcoming examination for audit and verification by examination body.

Assessment criteria

Assessment process: The trainee will be tested for his skill, knowledge and attitude during the period of course through formative assessment and at the end of the training programme through summative assessment.

- The Continuous Assessment (Internal) during the period of training will be done by Formative Assessment Method by testing for assessment of performance listed against Performance criteria (PC). The internal assessment for each learning outcome is carried out by the concerned trainer for evaluating the knowledge and skill acquired by trainees. This internal assessment is primarily carried out by collecting evidence of competence gained by the trainees by evaluating them at work by asking questions and initiating formative discussions to assess understanding and by evaluating records and reports, and internal assessment marks are awarded to them. The methodology adopted during formative assessment will be as follows.
 - For theoretical knowledge MCQ test will be conducted to assess the knowledge of trainee against PC.
 - For practical skill the trainee will be assessed by the trainer during practical exercise against PC
- The training institute /NIGST will maintain individual *trainee portfolio* as detailed in assessment guideline. The marks of internal assessment will be as per the formative assessment template provided on www.bharatskills.gov.in
- The final assessment will be in the form of summative assessment. The learning outcome and assessment criteria weightage will be basis for setting question papers for final assessment.
 - One Theoretical Exam (i.e. MCQ paper of 100 nos. of questions as per weightage of each NOS) with questions of medium to difficult level will be conducted. The duration will be 2 hours.
 - One practical exam will be conducted in which participants will be provided with one of the field/Lab exercises from various NOS to perform. The trainee will be given one day (8 hrs.) to complete the field exercise and submit the results.
- The marking pattern and distribution of marks for the qualification are as under:

Sl. No.	Type of assessment	Subject for the trade test	Marks
1	Formative Assessment	Theory (including Employability skills)	400
2		Practical	350
3	Summative Assessment	Theory	100
4		Practical	100
TOTAL:			950

PASS REGULATION : The minimum pass percent for Formative assessment and Summative assessment are 70% . There will be no Grace marks.

Testing and certifications for the course: NIGST carries out the assessment and issues Certificates duly following the norms and guidelines issued by the NCVET.

ASSESSMENT GUIDELINES: Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking the assessment. While assessing, the major factors to be considered are approaches to generate solutions to specific problems by involving standard/non-standard practices.

Due consideration should be given while assessing teamwork, avoidance/reduction of scrap/ wastage and disposal of scrap/waste as per procedure, behavioural attitude, sensitivity to the environment and regularity in training. The sensitivity towards Occupational Safety, Health and Environment (OSHE) and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising some of the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Progress chart
- Attendance and punctuality
- Assignment
- Project work
- Computer based multiple choice question examination
- Practical Examination

Evidence and records of internal (Formative) assessments are to be preserved until forthcoming examination for audit and verification by examination body.

The following marking pattern to be adopted for formative assessment & summative practical exercise assessment:

Performance Level	Evidence
(a) Marks in the range of 60%-75% to be allotted during assessment	
For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices.	• Demonstration of good skills and accuracy in the field of work/ assignments. • A fairly good level of neatness and consistency to accomplish job activities. • Occasional support in completing the task/ job.
(b) Marks in the range of 75%-90% to be allotted during assessment	
For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices	• Good skill levels and accuracy in the field of work/ assignments. • A good level of neatness and consistency to accomplish job activities. • Little support in completing the task/job.
(c) Marks in the range of more than 90% to be allotted during assessment	

For performance in this grade, the candidate, with minimal or no support in organization and execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.

- High skill levels and accuracy in the field of work/ assignments.
- A high level of neatness and consistency to accomplish job activities.
- Minimal or no support in completing the task/ job.

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Annexure 8: Carrer Progression and Occupational Map

- On completion of the course, one will become a “Geo-Spatial Surveying Supervisor” and can handle surveying projects independently.
- Can become Surveying Manager in the Geo-informatics industry.
- Can become Geospatial consultant / specialist in the Geo – informatics industry.
- Can become Director / Entrepreneur of firm working in the in Geospatial domain.
- Academically, one can pursue Post Graduation or research in the Geospatial domain.

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Annexure 9: 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
CTS	Craftsman Training Scheme (CTS)

Glossary

Term	Description
National Occupational Standards (NOS)	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.
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 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