

NSQF QUALIFICATION FILE

approved in the 28th NSQC Meeting – NCVET – 29th March 2023

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Agriculture Skill Council of India (ASCI)

6th floor, GNG Building, Plot No – 10, Sector- 44, Gurugram,
Haryana – 122004

Qualification Code

QG-5.5-AG-00357-2023-V1-ASCI

Name and contact details of individual dealing with the submission

Name: Ms Priyanka Prakash

Position in the organisation: Senior Manager – Standards & QA

Address, if different from above

Tel number(s): 0124 – 4670029/ 4814673/ 4814659

E-mail address: priyanka@asci-india.com

List of documents submitted in support of the Qualifications File

1. Qualifications Pack – Annexure 1
2. Model Curriculum – Annexure 2
3. Industry Validations- Annexure 3

Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

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SUMMARY

1	Qualification Title	Water Resource Supervisor
2	Qualification Code, if any	AGR/Q6605, v2.0
3	NCO code and occupation	NCO-2015/NIL, Watershed Management
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Nature of the qualification- a Qualification Pack (QP) Building the technical capacities of water resource assistants, community mobilizers and para geo-hydrologists, data management and analysis, project monitoring and reporting and water budgeting.
5	Body/bodies which will award the qualification	Agriculture Skill Council of India (ASCI)
6	Body which will accredit providers to offer courses leading to the qualification	Agriculture Skill Council of India (ASCI)
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes (Annexure 3)
8	Occupation(s) to which the qualification gives access	Watershed Management
9	Job description of the occupation	A Water Resource Supervisor is responsible for building the technical capacities of water resource assistants, community mobilizers, para geo-hydrologists and facilitators, data management and analysis, project monitoring and reporting and water budgeting. The person also supervises the planning and implementation of watershed/ springshed/ groundwater resource projects.
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NA
12	Level of the qualification in the NSQF	Level 5.5
13	Anticipated volume of training/learning required to complete the qualification	Minimum Duration: 600 Hours Maximum Duration: 660 Hours Compulsory Modules: 480 Hours (Theory: 180 Hours, Practical: 180 Hours, ES: 90 Hours, Elective: 30)

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		Three Elective Module each of 30 Hours (Theory: 10 Hours & Practical: 20 Hours) OJT: 120 Hours
14	Indicative list of training tools required to deliver this qualification	Attached herewith
15	Entry requirements and/or recommendations and minimum age	Completed 3rd year of UG OR Pursuing 3rd year of UG and continuous education OR Completed 2nd year diploma after 12th OR 12th grade pass plus 2 years of vocational education and training with 1-year relevant experience OR Completed 3-year diploma (after 10th) with 2 years of relevant experience OR 12th grade pass with 3 years of relevant experience OR Previous relevant qualification of NSQF Level 5 with 1.5 years of relevant experience OR Previous relevant qualification of NSQF Level 4.5 with 3 years of relevant experience 25 Years
16	Progression from the qualification (Please show Professional and academic progression)	Water Resource Manager
17	Arrangements for the Recognition of Prior learning (RPL)	RPL assessment will be as per normal ASCI assessment process. (ASCI recognizes that there may be candidates who have prior learning experience in the Agriculture Sector and are desirous of being certified. Such candidates can apply to ASCI for testing and certification of their skills. Training Partners will be responsible for identifying and counselling candidates for RPL through mobilization camps and advertisements. The details of the RPL process have been defined by ASCI under the document- Guidelines for Recognition

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		of Prior Learning under PMKVY).		
18	International comparability where known (research evidence to be provided)	Not done as yet		
19	Date of planned review of the qualification.	3 years post NSQC Approval		
20	Formal structure of the qualification Mandatory components			
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)		Level
		Theory	Practical	
(i)	Introduction (Bridge Module)	05	00	
(ii)	AGR/N6645: Build technical capacities of water resource assistants, community mobilizers, para geo-hydrologists, and facilitators	25	30	5.5
(iii)	AGR/N6638: Carry out data management and analysis	30	60	5.5
(iv)	AGR/N6639: Support in regular field-level project monitoring and reporting.	60	30	5.5
(v)	AGR/N6640: Carry out water budgeting for the target area	55	35	5.5
(vi)	AGR/N9903: Maintain health and safety at the workplace	05	25	4
(vii)	DGT/VSQ/N0103: Employability Skills (90 Hours)	90	00	5
	Sub Total (A)	270	180	
Elective Components				
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)		Level
		Theory	Practical	
(vi)	Elective 1: Watershed AGR/N6641: Supervise watershed planning and implementation	10	20	5.5
(vii)	Elective 2: Springshed AGR/N6642: Supervise springshed planning and implementation	10	20	5.5
(viii)	Elective 3: Groundwater AGR/N6643: Supervise the planning and implementation of groundwater resource development	10	20	5.5
	Sub Total (B)	30	60	
	Total (A+B)	300	240	
OJT: 120 Hours				

OJT: 120 Hours

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SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>ASCI affiliated assessment bodies.</p> <ol style="list-style-type: none">1. SHL India (Pvt.) Ltd2. Trendsetters Skill Assessors Pvt Ltd3. Mercer-Mettl4. SP Institute of Workforce Development (SPIWD)5. MSAG SI LLP <p>More Assessment Agencies are being empanelled to cover wider geographical area</p>
22	<p>How will RPL assessment be managed and who will carry it out?</p> <p>RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack and will be carried out as per normal ASCI assessment process. The Training Partner or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps and advertisements. The mobilized candidates can be counselled, oriented about the standardized NSQF framework and basis their existing competency will be mapped against the suitable level of the concerned Job role for assessments. The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by Sector Skill Council (SSC). The candidate will need to pass in the minimum assessment criteria of a particular QP decided by the SSC. Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for QP-NOS based Certification.</p>
23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>A robust technology enabled assessment methodology has been designed keeping in mind the geographical/Physical constraints and target segment which assess a trainee's knowledge and skill set through three methods:</p> <ol style="list-style-type: none">a. An offline Tablet based test through the use of Multiple Choice Text and Picture based questions in vernacular languagesb. Actual demonstration on the fieldc. Viva <p>ASCI's assessment strategy:</p> <ul style="list-style-type: none">● Question sets are developed as per the weightage of each NOS of the Qualification Pack.● Assessment criteria for each Qualification Pack developed, in which

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	<p>each Performance criteria (PC) assigned marks based on NOS</p> <ul style="list-style-type: none">• Question Bank is developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get different set of question• Empanelment of subject matter expert as assessor primarily from the Industry to assess trainee specifically on practical skills as per Industry demands <p>Assessments are preferably conducted on tablets or pen or papers in regional languages according to the requirement.</p>
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Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component:

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome

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Means of assessment 1
Pass/Fail

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Job Role: Water Resource Supervisor

Qualification Pack: AGR/Q6605, v2.0

Sector Skill Council: Agriculture Skill Council of India

Assessment Guidelines:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.

In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
AGR/N6645: Build technical capacities of water resource assistants, community mobilizers, para geo-hydrologists, and facilitators				
<i>Prepare for the training</i>	16	22	-	15
PC1. prepare the training modules and training calendar based on the need assessment	-	-	-	-
PC2. prepare the training material, e.g. presentations, posters, reference booklets, etc.	-	-	-	-
PC3. identify the appropriate tools and technologies for delivering the training	-	-	-	-
PC4. liaise with the relevant stakeholders, such as line department officials,	-	-	-	-

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universities, research organizations, etc., for resource mobilization				
PC5. prepare and finalize the budget for the training and coordinate with the relevant authority to get approval, if required	-	-	-	-
<i>Deliver the technical training</i>	14	18	-	15
PC6. conduct classroom/ virtual/ practical training for the facilitators and other stakeholders, such as government officials	-	-	-	-
PC7. ensure to take feedback from the learners after training to identify and plan improvements	-	-	-	-
PC8. prepare and compile the training reports and submit them to the relevant authority	-	-	-	-
PC9. ensure regular interaction with the learners virtually to resolve any issues experienced after the training	-	-	-	-
NOS Total	30	40	-	30
AGR/N6638: Carry out data management and analysis				
<i>Guide in data collection</i>	11	14	-	11
PC1. prepare the yearly calendar for data collection and set up a monitoring network	-	-	-	-
PC2. guide in identifying the sources and methods for the collection of primary and secondary data	-	-	-	-
PC3. support in preparing the appropriate formats and templates for data collection	-	-	-	-
PC4. liaise with different stakeholders for data collection	-	-	-	-
PC5. estimate the budget for data collection and coordinate with the relevant authority to get approval	-	-	-	-
PC6. verify the collected data for completeness and correctness and guide the functionaries in taking the appropriate corrective measures	-	-	-	-
PC7. guide the field functionaries in entering data in Management Information System (MIS)	-	-	-	-
<i>Analyse the collected data</i>	8	10	-	8
PC8. prepare the composite map using the collected data and cadastral map, toposheets, PRA maps, etc.	-	-	-	-

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PC9. carry out data curation, including analysis, interpretation, visualization, dissemination and demystification for communities	-	-	-	-
PC10. select an appropriate method and conduct an impact assessment, e.g. baseline vs endline, control vs test, case studies, change in the cropping pattern and irrigation method, etc.	-	-	-	-
PC11. analyse the annual water budget along with the interventions undertaken to identify the gaps and determine the further course of action	-	-	-	-
PC12. support in temporal and spatial analysis of the impact on land use pattern, water productivity and water use efficiency	-	-	-	-
<i>Carry out audit-related reporting and documentation</i>	11	16	-	11
PC13. identify the audit-related documentation to be completed in an appropriate format	-	-	-	-
PC14. prepare all the documents within the stipulated time according to the organizational procedure, meeting the regulatory and compliance requirements	-	-	-	-
PC15. maintain the books of accounts, monitoring and tracking the use of funds	-	-	-	-
PC16. support in the preparation of the annual audit report as per the existing audit arrangements	-	-	-	-
PC17. ensure the documents are available to the relevant authorities for inspecting	-	-	-	-
PC18. coordinate with the relevant authority while processing the requests for information, following the applicable organizational procedures	-	-	-	-
PC19. maintain communication with the stakeholders and team members and apprise them of data availability (manually or electronically), audit reports, and other relevant issues	-	-	-	-
PC20. coordinate with the appropriate authority to resolve the data problems/incidents, reporting the relevant	-	-	-	-

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problems/ incidents promptly as per the organizational procedure				
NOS Total	30	40	-	30
AGR/N6639: Support in regular field-level project monitoring and reporting				
<i>Support in regular field-level project monitoring</i>	24	32	-	24
PC1. conduct regular monitoring to ensure good quality implementation of physical structures	-	-	-	-
PC2. conduct regular monitoring of sensitization and Information, Education and Communication (IEC) activities	-	-	-	-
PC3. support in regular monitoring of physical and financial progress of the project	-	-	-	-
PC4. support in monitoring the functioning of governance institutions and adherence to bylaws concerning the water resource usage	-	-	-	-
PC5. support in monitoring the impact of interventions on underprivileged sections of the community	-	-	-	-
PC6. support in monitoring and analysing the performance of field functionaries	-	-	-	-
PC7. curate challenges from the field to help inform changes in program design, capacity building and other areas	-	-	-	-
PC8. use data, decision support tools, appropriate formats, templates and framework to conduct regular monitoring	-	-	-	-
<i>Support in regular field-level reporting of the progress</i>	6	8	-	6
PC9. prepare and submit training, sensitization and IEC activity reports in the prescribed formats	-	-	-	-
PC10. assist in preparing the progress and impact reports as per the project requirements	-	-	-	-
NOS Total	30	40	-	30
AGR/N6640: Carry out water budgeting for the target area				
<i>Ensure data collection for water budgeting</i>	6	9	-	6
PC1. prepare the seasonal calendar for data collection	-	-	-	-

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PC2. guide in data collection and preparing the appropriate formats and templates	-	-	-	-
PC3. verify the collected data for completeness and correctness	-	-	-	-
<i>Carry out water budgeting and support in presenting the findings</i>	11	15	-	11
PC4. prepare the necessary metrics related to water resource development to track the performance at the required level of the institution in consultation with senior official	-	-	-	-
PC5. support in sensitizing the community about water governance and budgeting	-	-	-	-
PC6. compile and organise the data for analysis	-	-	-	-
PC7. prepare a pictogram on water budgeting	-	-	-	-
PC8. ensure and support in presenting the findings to the community in a timely manner	-	-	-	-
<i>Ensure follow-up and develop a plan</i>	13	16	-	13
PC9. conduct regular review meetings with field functionaries	-	-	-	-
PC10. ensure the compilation of community feedback on the findings of water budgeting	-	-	-	-
PC11. guide the field functionaries to prepare a plan based on findings and community feedback	-	-	-	-
PC12. ensure the development of a plan	-	-	-	-
PC13. support the quality assurance of the program across all the activities for the optimal utilization of resources				
PC14. check the implementation and effectiveness of the action plan, and make additional recommendations as required				
NOS Total	30	40	-	30
AGR/N9903: Maintain health and safety at the workplace				
<i>Maintain personal hygiene</i>	10	5	-	10
PC1. wash hands, legs and face with soap/alcohol-based sanitiser at reasonable intervals	-	-	-	-
PC2. wash the worn clothes with soap and sun-dry before use next time	-	-	-	-
PC3. ensure the face is covered with a mask or three layers of cloth-piece	-	-	-	-

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PC4. follow the workplace sanitization norms including distancing from sick people	-	-	-	-
<i>Maintain a clean and safe workplace</i>	15	15	-	15
PC5. carry out basic safety checks before operation of all tools, implements, and machinery and report identified hazards to the supervisor	-	-	-	-
PC6. wear appropriate personal protective equipment (PPE) while performing work in accordance with the workplace policy	-	-	-	-
PC7. follow the instructions mentioned on the labels of chemicals/pesticides/fumigants etc. to avoid hazards	-	-	-	-
PC8. assess risks prior to performing manual handling jobs, and work according to currently recommended safe practices	-	-	-	-
PC9. sanitize equipment, tools and machinery before and after use	-	-	-	-
PC10. use equipment and materials safely and correctly and return the same to designated storage after use	-	-	-	-
PC11. dispose waste safely and correctly in the designated area	-	-	-	-
PC12. recognize risks to bystanders and take the required action to reduce the risks	-	-	-	-
PC13. work in a manner that minimises environmental damage, ensuring all procedures and instructions for controlling risks are followed	-	-	-	-
PC14. report any accidents, incidents or problems without delay to an appropriate person and take	-	-	-	-
PC15. follow government / workplace advisories in case of outbreak of any disease/disaster	-	-	-	-
<i>Administer appropriate emergency procedures</i>	15	5	-	10
PC16. follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to the location of the emergency, as per the workplace requirements	-	-	-	-
PC17. use emergency equipment in accordance with the manufacturer's specifications and workplace requirements	-	-	-	-

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PC18. report provided treatment appropriate to the patient's injuries in accordance with recognized first aid techniques	-	-	-	-
PC19. recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate	-	-	-	-
PC20. report details of first aid administered in accordance with workplace procedures	-	-	-	-
NOS Total	40	25	-	35
AGR/N6641: Supervise watershed planning and implementation				
<i>Read and analyse the relevant maps</i>	6	9	-	6
PC1. read and analyse the toposheet, cadastral, spatial and other thematic maps	-	-	-	-
PC2. demarcate the watershed boundary on toposheet	-	-	-	-
PC3. calculate the watershed area on the toposheet	-	-	-	-
<i>Supervise watershed planning and preparation of DPR</i>	10	13	-	10
PC4. use different maps in watershed planning	-	-	-	-
PC5. guide field functionaries in the field survey, site selection and cost estimation	-	-	-	-
PC6. ensure the availability of different types of data for the preparation of DPR	-	-	-	-
PC7. carry out a detailed technical survey, e.g. L-section, cross-section, and estimation of major water harvesting structures	-	-	-	-
PC8. facilitate and assist in assessing the quality of water	-	-	-	-
PC9. support in compilation and analysis of data for DPR preparation	-	-	-	-
<i>Supervise the implementation</i>	14	18	-	14
PC10. summarize the DPR to the field functionaries	-	-	-	-
PC11. ensure the DPR is presented to the community and watershed committee	-	-	-	-
PC12. prepare the seasonal calendar for the implementation of watershed interventions	-	-	-	-
PC13. guide and assist the field functionaries in worksite management, i.e. layout marking, labour management, work allotment, measurements, etc.	-	-	-	-

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PC14. support the field functionaries in maintaining different records, such as cashbook, ledger, stock register, attendance sheet, measurement book, etc.	-	-	-	-
PC15. support in the verification of completion of work and prepare the work completion report	-	-	-	-
PC16. support in the preparation of payment sheet and disbursement of wages	-	-	-	-
NOS Total	30	40	-	30
AGR/N6642: Supervise springshed planning and implementation				
<i>Read and analyse the relevant maps</i>	6	9	-	6
PC1. read and analyse the toposheet, cadastral, spatial and other thematic maps	-	-	-	-
PC2. demarcate the springshed boundary	-	-	-	-
PC3. calculate the springshed area	-	-	-	-
<i>Supervise springshed planning and preparation of DPR</i>	10	13	-	10
PC4. use different maps in springshed planning	-	-	-	-
PC5. guide field functionaries in baseflow measurement, survey, site selection and cost estimation	-	-	-	-
PC6. ensure the availability of different types of data for the preparation of DPR	-	-	-	-
PC7. carry out detailed technical surveys for spring chamber, catchment protection measures, diversion-based water distribution system, and estimation of different water conservation and distribution structures	-	-	-	-
PC8. facilitate and assist in assessing the quality of water	-	-	-	-
PC9. support in compilation and analysis of data for DPR preparation	-	-	-	-
<i>Supervise the implementation</i>	14	18	-	14
PC10. summarize the DPR to the field functionaries	-	-	-	-
PC11. ensure the DPR is presented to the community and springshed committee	-	-	-	-
PC12. prepare the seasonal calendar for the implementation of springshed interventions	-	-	-	-
PC13. guide and assist the field functionaries in worksite management, i.e.	-	-	-	-

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layout marking, labour management, work allotment, measurements, etc.				
PC14. support the field functionaries in maintaining different records, such as cashbook, ledger, stock register, attendance sheet, measurement book, etc.	-	-	-	-
PC15. Support in the verification of completion of work and prepare the work completion report	-	-	-	-
PC16. Support in the preparation of payment sheet and disbursement of wages	-	-	-	-
NOS Total	30	40	-	30
AAGR/N6643: Supervise the planning and implementation of groundwater resource development				
<i>Read and analyse the relevant maps</i>	4	6	-	4
PC1. read and analyse the aquifer, geological, cadastral, spatial and other thematic maps	-	-	-	-
PC2. analyse the water table contour lines	-	-	-	-
<i>Supervise the planning for groundwater resource development</i>	7	9	-	7
PC3. use different maps in groundwater resource development planning	-	-	-	-
PC4. guide field functionaries in the survey, site selection and cost estimation	-	-	-	-
PC5. facilitate and assist in assessing the quality of water	-	-	-	-
PC6. plan and assist the field functionaries in carrying out well inventory	-	-	-	-
<i>Supervise the preparation of DPR</i>	6	8	-	6
PC7. ensure the availability of different types of data for the preparation of DPR	-	-	-	-
PC8. carry out detailed technical surveys for recharge and discharge structures, catchment protection measures, water distribution/ sharing system, and estimation of different water conservation and distribution structures	-	-	-	-
PC9. Guide in compilation and analysis of data for DPR preparation	-	-	-	-
<i>Supervise the implementation</i>	13	17	-	13
PC10. summarize the DPR to the field functionaries	-	-	-	-

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PC11. ensure the DPR is presented to the community and groundwater management committee or other relevant committees	-	-	-	-
PC12. prepare the seasonal calendar for the implementation of groundwater resource development interventions	-	-	-	-
PC13. guide and support the field functionaries in worksite management, i.e. layout marking, labour management, work allotment, measurements, etc.	-	-	-	-
PC14. support the field functionaries in maintaining different records, such as the cashbook, ledger, stock register, attendance sheet, measurement book, etc.	-	-	-	-
PC15. support in the verification of completion of work and prepare the work completion report	-	-	-	-
PC16. support in the preparation of payment sheet and disbursement of wages	-	-	-	-
NOS Total	30	40	-	30
DGT/VSQ/N0103: Employability Skills – NOS (90 hours)				
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the current job market requirement and future of work.	-	-	-	-
PC2. identify and explore learning and employability relevant portals	-	-	-	-
PC3. research about the different industries, job market trends, latest skills required and the available opportunities.	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC4. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC5. follow environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC6. recognize the significance of 21st Century Skills for employment	-	-	-	-

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PC7. practice the 21st Century Skills such as Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal and professional life	-	-	-	-
PC8. adopt a continuous learning mindset for personal and professional development	-	-	-	-
<i>Basic English Skills</i>	3	4	-	-
PC9. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC10. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC11. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-
PC12. identify career goals based on the skills, interests, knowledge, and personal attributes	-	-	-	-
PC13. prepare a career development plan with short- and long-term goals.	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC14. follow verbal and non-verbal communication etiquette while communicating in professional and public settings	-	-	-	-
PC15. use active listening techniques for effective communication	-	-	-	-
PC16. communicate in writing using appropriate style and format based on formal or informal requirements	-	-	-	-
PC17. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC18. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC19. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-

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<i>Financial and Legal Literacy</i>	2	3	-	-
PC20. identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.	-	-	-	-
PC21. carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook	-	-	-	-
PC22. identify common components of salary and compute income, expenses, taxes, investments etc.	-	-	-	-
PC23. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	5	-	-
PC24. operate digital devices and use their features and applications securely and safely	-	-	-	-
PC25. carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.	-	-	-	-
PC26. display responsible online behavior while using various social media platforms	-	-	-	-
PC27. create a personal email account, send and process received messages as per requirement	-	-	-	-
PC28. carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications	-	-	-	-
PC29. utilize virtual collaboration tools to work effectively	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-
PC30. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC31. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-

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PC32. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC33. identify different types of customers and ways to communicate with them	-	-	-	-
PC34 . identify and respond to customer requests and needs in a professional manner	-	-	-	-
PC35. use appropriate tools to collect customer feedback	-	-	-	-
PC36. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC37. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC38 . search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC39. apply to identified job opening using offline /online methods as per requirement	-	-	-	-
PC40. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC41. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	20	30	-	-

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SECTION 2

EVIDENCE OF LEVEL

OPTION B

Title/ Name of qualification/ component: Water Resource Supervisor			Level: 5.5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none">● Build technical capacities of water resource assistants, community mobilizers and para geo-hydrologists● Carry out data management and analysis● Support in regular field-level project monitoring and reporting● Carry out water budgeting for the target area● Follow the appropriate finance management and digital practices● Use resources optimally and perform waste and logistics management● Follow inclusive practices at work● Maintain health and safety at the workplace● Supervise watershed planning and implementation● Supervise springshed planning and implementation● Supervise the planning and implementation of groundwater resource development	A Water Resource Supervisor is responsible for building the technical capacities of water resource assistants, community mobilizers and para geo-hydrologists, data management and analysis, project monitoring and reporting and water budgeting. The person also assists in planning and implementing watershed/ springshed/ groundwater resource projects.	5.5

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Professional knowledge	<ul style="list-style-type: none">• Understand the principles of pedagogy• Knowledge of selecting the appropriate training material according to the learners• Know different formats and templates for various forms and reports• Understand the requirement of liaising with the relevant stakeholders• Know how to prepare a training report• Know how to prepare composite maps• Know different methods of impact assessment• Know how to use relevant software tools and mobile applications• Understand the the appropriate formats and templates used for data collection• Know how to manage data using Management Information System (MIS)• Know how to prepare a composite map• Understand the process of data curation, including analysis, interpretation, visualization, dissemination and demystification for communities• Understand technical specifications of different water conservation structures• Understand the process of monitoring the physical and financial progress of the project	<p>The job holder is expected to have knowledge of selecting the appropriate training material according to the learners, different formats and templates for various forms and reports, requirement of liaising with the relevant stakeholders, preparing a training report, and composite maps</p>	5.5
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Professional skill	<ul style="list-style-type: none">• Maintain the relevant evidence concerning the delivery of training• prepare the training report and submit it to the relevant authority• Prepare the yearly calendar for data collection and set up a monitoring network• Guide in identifying the sources and methods for the collection of primary and secondary data• Support in preparing the appropriate formats and templates for data collection• Prepare the composite map using the collected data and cadastral map, toposheets, PRA maps• Prepare and submit training, sensitization and IEC activity reports in the prescribed formats• Prepare the seasonal calendar for data collection• Compile and organise the data for analysis• Prepare the relevant documents for opening a personal bank account and follow the prescribed procedure for opening a bank account• Set up the computer and relevant peripherals	The job holder is expected to coordinate in maintaining the relevant evidence concerning the delivery of training, preparing the training report and submit it to the relevant authority, preparing the yearly calendar for data collection and set up a monitoring network guiding in identifying the sources and methods for the collection of primary and secondary data.	5.5
Core Skills	<ul style="list-style-type: none">• Building the capabilities of the water resource assistants, community mobilizers and para geo-hydrologists• Carrying out data management and analysis concerning water resource development and implementation	The job holder is expected to building the capabilities of the water resource assistants, community mobilizers and para geo-hydrologists, carrying out data management and analysis concerning water resource development and implementation, supporting regular field-level	5.5

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	<ul style="list-style-type: none">• Supporting regular field-level project monitoring and reporting concerning the progress in water resource planning and implementation• Preparing the water budget based on the availability and utilization of water in the target area• Following the appropriate financial management and digital practices• Using resources optimally and performing waste and logistics management• Following appropriate practices at work to ensure an inclusive environment for Persons with Disabilities (PwD) and all genders• Maintaining health and safety of self and other co-workers at the workplace• Assisting in delineation, preparing the Detailed Project Report (DPR) and implementing the watershed interventions• Assisting in delineation, preparing the Detailed Project Report (DPR) and implementation of the springshed interventions• assisting in aquifer mapping, preparing the Detailed Project Report (DPR) and implementing the groundwater resource development interventions	<p>project monitoring and reporting concerning the progress in water resource planning and implementation, preparing the water budget based on the availability and utilization of water in the target area.</p>	
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Responsibility	<p>The Individual Will Responsible for below mention activities:</p> <ul style="list-style-type: none">• Assist in preparing for the training• Deliver the training• Guide in data collection• Analyse the collected data• Support in regular field-level project monitoring• Support in periodic field-level reporting of the progress• Follow the financial management practices• Follow the digital practices• Use resources optimally• Perform waste management• Manage logistics for training and workshops• Follow PwD inclusive practices• Follow gender-sensitive practices• Maintain personal hygiene• Maintain clean and safe workplace• Administer appropriate emergency procedures• Read and analyse the relevant maps• Supervise watershed planning and preparation of DPR• Supervise the implementation• Supervise springshed planning and preparation of DPR• Supervise the implementation• Supervise the planning for groundwater resource development	<p>A Water Resource Supervisor is responsible for building the technical capacities of water resource assistants, community mobilizers and para geo-hydrologists, data management and analysis, project monitoring and reporting and water budgeting. The person also assists in planning and implementing watershed/ springshed/ groundwater resource projects.</p>	5.5
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	<ul style="list-style-type: none">• Supervise the preparation of DPR• Supervise the implementation		
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SECTION 3**EVIDENCE OF NEED**

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?
Basis	
Need of the qualification	<p>While collecting data from the companies for the occupational map, we also took feedback from industry, training institutions which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the industry feels they face. Governing council of ASCI and Occupational Standards Committee which comprises of experts & senior leaders gave final approval and endorsement for the same.</p> <p>The Department of Land Resources, Ministry of Rural Development is implementing the Integrated Watershed Development Programme (IWMP) from 2009-10 with an objective to cover 55 million hectare of rain fed land by 2027. The program is being implemented in all the states of the country. The programme is financed by central and state government in the ratio of 90:10. The IWMP is the second largest watershed programme in the world after China. Watershed management helps to control pollution of the water and other natural resources in the watershed. Haryali is a watershed development project sponsored by the Central Government which aims at enabling the rural population to conserve water for drinking, irrigation, fisheries and afforestation. The Project is being executed by Gram Panchayats with people's participation.</p> <p>Employment opportunities for the community members are increased with better wage earnings in construction work during pre-watershed and engagement in the agricultural field during post watershed programmes.</p> <p>The overall attributes of the watershed development approach, by and large, are three-fold, viz. promoting economic development of the rural area, employment generation, and restoring ecological balance.</p> <p>Agriculture is the largest sector for employment in India.</p>
Industry Relevance	Foundation for Ecological Security, Arghyam, Water for People India, Meghalaya Basin Management Agency, Directorate of Soil Conservation & Watershed Development, Department of Agriculture & Farmers' Empowerment, Government of Odisha, Prof (Dr) Uday Shankar Saha (Watershed Expert)

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Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Water Resource Supervisor shall provide opportunities to the incumbents for horizontal and vertical career progression. Competency-based training shall imbibe professionalism in the job-role. Being an important and ever-expanding job, the job-role of Water Resource Supervisor may well be included in the vocational education stream of school education.</p> <p>An industry-determined specification of performance, sets out the skills, knowledge and attitudes required to operate effectively in employment.</p> <p>For employers, the Water Resource Supervisor Qualification standards offer:</p> <ul style="list-style-type: none">• a means of assessing occupational competence objectively, including knowledge and understanding of the subject• a guide for job descriptions and recruitment requirements• a basis for staff appraisals• a systematic approach to analyzing training needs• an opportunity to improve overall company performance by developing a better-trained, better-equipped and more effective workforce. <p>To employees and freelancers, the Water Resource Supervisor Qualification standards provide:</p> <ul style="list-style-type: none">• a means for recognizing ability• a means for determining gaps in knowledge, experience and skills• an objective process for identifying training needs• performance indicators and a guide to effectiveness and efficiency. <p>One of the most valuable uses of the occupational standards is in the assessment of a person's performance within a particular job. Because the standards are based on the industry's requirements for ability, skills and knowledge, they provide an objective and directly relevant measure for employers and employees alike.</p>											
	The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Water Resource Supervisor											
Estimated uptake	<table><tr><th>QP/Job Role Name</th><th>"States where Demand exist</th><th>"District where Demand exist</th><th>Projections for the next 3 years</th></tr><tr><td>Water Resource Supervisor</td><td>PAN INDIA</td><td>Various Districts</td><td>3000</td></tr></table>				QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years	Water Resource Supervisor	PAN INDIA	Various Districts	3000
QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years									
Water Resource Supervisor	PAN INDIA	Various Districts	3000									

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27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences In Progress
28	What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification This is the revised version of the already NSQC approved QP of Watershed Supervisor (NQR - 2019/AGR/ASCI/03083). The revision has been undertaken as the QP is going to expire soon.
29	What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here Any institution or individual is welcome to send the feedback, which is recorded and considered during next review cycle. Communication will be sent for any feedback to all the main stakeholders/users one month prior to the review of the qualifications pack. A formal review is scheduled in three years.

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information

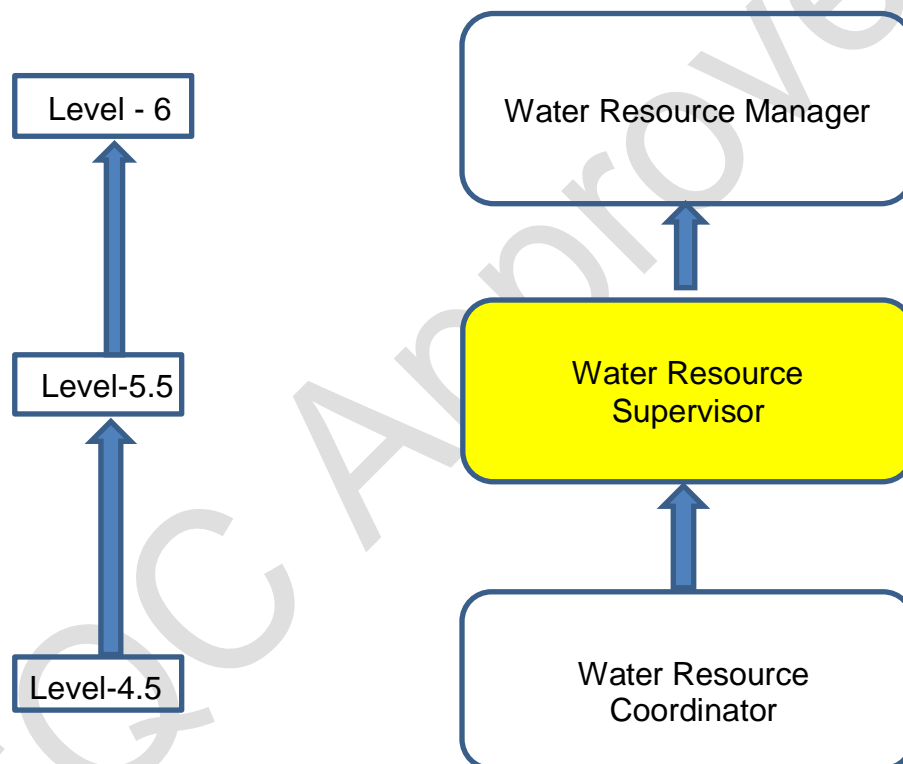
SECTION 4**EVIDENCE OF PROGRESSION****30**

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Show the career map here to reflect the clear progression

Career path in the agriculture sector is generally in terms of activities done & ownership of responsibility because they are primarily self-wage employment/ entrepreneurship roles.

Annexure 1: Career Map of Water Resource Supervisor



Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.