

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**Name and address of submitting body:**

Life Sciences Sector Skill Development Council

14, Palam Marg, Rear 2rd Floor, Vasant Vihar, New Delhi, PIN 110057

Phone: +91 11 41042407/ 408, E-mail: info@lsssdc.in

Name and contact details of individual dealing with the submission

Name: Mr. Anshul Saxena

Position in the organisation: Senior Director- Standards & Training Advisory

Address if different from above:

Same as above

Tel number(s): + 91 11 41042407/ 408, +91 9650433002

E-mail address: anshul.saxena@lsssdc.in

List of documents submitted in support of the Qualifications File

- 1 Qualifications Pack
- 2 LSSSDC Protocol for Accreditation of Assessment Agencies and Assessment Guidelines
- 3 Minutes of meeting of Governing Body
 - Composition of National Committee of NOS
- 4 NSDC Sector Skill Gap Report for Life Sciences Sector is available at <http://nsdcindia.org/sites/default/files/files/Pharmaceuticals.pdf>
- 5 Occupational Map and Career Progression Map
- 6 List of companies and Industry associations participated in the development of these qualification packs
- 7 List of QP/NOS validating companies

Model Curriculum (attached as annexure) including the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

- Distribution of training duration into theory/skill practical/Project and Viva component

SUMMARY

1	Qualification Title	Effluent Treatment Plant Operator – Life Sciences (Pharma, Bio-Pharma & Research)
2	Qualification Code, if any	LFS/Q0220
3	NCO code and occupation	NCO 2015/3132.0400
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	Short term with or without apprenticeship
5	Body/bodies which will award the qualification	Life Sciences Sector Skill Development Council
6	Body which will accredit providers to offer courses leading to the qualification	Life Sciences Sector Skill Development Council
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes, attached the copy as annexure 1
8	Occupation(s) to which the qualification gives access	Manufacturing
9	Job description of the occupation	Effluent Treatment Plant operator also known as ETP operator, is responsible for operating the machines and carry out waste disposal activities. This person provides support to Incharge and EHS team to ensure effluent treatment and activities are carried out while adhering to correct procedures, regulations, health and safety guidelines. S/he is responsible to monitor quantity and quality of effluent streams. The individual is also responsible for site inspection for environmental monitoring. He/She maintains the statutory records for quantity, quality and operating parameters for ETP operations.

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

10	Licensing requirements	Not applicable
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	Nil
12	Level of the qualification in the NSQF	4
13	Anticipated volume of training/learning required to complete the qualification	342 hours excluding recommended OJT hours
14	Indicative list of training tools required to deliver this qualification	Attached as annexure 2
15	Entry requirements and/or recommendations and minimum age	12 th Class preferably with Science Subject / ITI 18 Years
16	Progression from the qualification (Please show Professional and academic progression)	<p>Upward progression:</p> <p>1. Executive- EHS (Level 5)</p> <p>Horizontal progression:</p> <p>Possible horizontal progression across manufacturing and R&D based sectors as well as in the Municipal Corporation and Gram Panchayat as Wastewater Treatment Plant Technician.</p>
17	Arrangements for the Recognition of Prior Learning (RPL)	The process to award the qualification via RPL mode and detailed methodology is given in point No.22
18	International comparability Whether known (research evidence to be provided)	<p>While preparing the NOSs, detailed secondary desk research was conducted. The European, South African and Australian NOSs were referred to. The relevant International NOSs for the job role are listed below for reference:</p> <p>UK NOS</p> <ul style="list-style-type: none"> •COGLS201 Follow health and safety procedures in life sciences

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<ul style="list-style-type: none">•SEMEMI2-31 Carrying out maintenance on environmental control equipment•COGWT5 Apply a water treatment program for effluent treatment systems•COGLS215 Carry out sampling operations in life sciences•COGLS301 Maintain health and safety in life sciences•COGPI01.3 prepare process materials•COGPI02.15 identify and deal with industry hazards•COGPI03.2 control emergencies•SFHPHARM23 check documentation and materials <p>Australia NOS</p> <ul style="list-style-type: none">•Communicate workplace information•Participate in work teams and groups•Apply Good Manufacturing Practice procedures•Participate in OHS processes•Handle dangerous goods/hazardous substances <p>South Africa NOS</p> <ul style="list-style-type: none">•Act in accordance with ethical and legal codes of pharmaceutical representation and the laws of the country
19	Date of planned review of the qualification 31/03/2024

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

20	Formal structure of the qualification					
	Mandatory components					
	NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
	Bridge	04:00	00:00	00:00	00:00	04:00
	Introduction of Life Sciences industry and applicable regulations	04:00	00:00	00:00	00:00	04:00
	SGJ/N6601 – Operate the Wastewater Treatment Plant NOS Version No. 1 NSQF Level-4	46:00	76:00	00:00	00:00	122:00
	Introduction of Wastewater Treatment plant industry	08:00	08:00	00:00	00:00	16:00
	Types of Wastewater and its Treatment	08:00	08:00	00:00	00:00	16:00
	Wastewater treatment plant and its components	06:00	12:00	00:00	00:00	18:00
	Wastewater Treatment Process	12:00	24:00	00:00	00:00	36:00
Operate Wastewater Treatment Plant	12:00	24:00	00:00	00:00	36:00	
SGJ/N6602 – Monitor and Maintain Wastewater Treatment Plant NOS Version No. 1 NSQF Level-4	12:00	30:00	00:00	00:00	42:00	

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Monitoring and Maintenance of Wastewater Treatment Plant	12:00	30:00	00:00	00:00	42:00
SGJ/N6605 – Work Safety at Wastewater treatment plant NOS Version No. 1 NSQF Level-4	12:00	24:00	00:00	00:00	36:00
Work Safety at Wastewater Treatment Plant	12:00	24:00	00:00	00:00	36:00
LFS/N0256 – Carry out GMP-critical (Good Manufacturing Practices) activities and their documentation NOS Version No. 1 NSQF Level-4	14:00	28:00	00:00	00:00	42:00
ETP operations for compliance with Good Manufacturing Practices	10:00	20:00	00:00	00:00	30:00
Reporting & Documentation for regulatory compliance	04:00	08:00	00:00	00:00	12:00
LFS/N0253 – Coordinate and communicate with EHS Supervisor, teams and auditors NOS Version No. 1 NSQF Level-4	14:00	22:00	00:00	00:00	36:00
Coordination activities for ETP Operator	08:00	16:00	00:00	00:00	24:00

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Sensitivity towards genders and people with disability	06:00	06:00	00:00	00:00	12:00
Apprenticeship Training	00:00	00:00	00:00	00:00	500:00
Total Duration					782:00

Option 1: Additional Skill in English Language

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
MEP/N9993 – Use basic English for employability – Variant III NOS Version No.1 NSQF Level-4	20:00	40:00	00:00	00:00	60:00
Greetings	00:30	01:00	00:00	00:00	01:30
Introduction to self	00:30	01:00	00:00	00:00	01:30
Family and Friends	00:30	01:00	00:00	00:00	01:30
Human Body	00:30	01:00	00:00	00:00	01:30
Colours	00:30	01:00	00:00	00:00	01:30
Home and Neighbourhood	00:30	01:00	00:00	00:00	01:30
Time and calendar	00:30	01:00	00:00	00:00	01:30
Weather and Seasons	00:30	01:00	00:00	00:00	01:30
Clothes	00:30	01:00	00:00	00:00	01:30
Food	00:30	01:00	00:00	00:00	01:30
Directions	00:30	01:00	00:00	00:00	01:30
Market	00:30	01:00	00:00	00:00	01:30
Everyday Objects	00:30	01:00	00:00	00:00	01:30
Hobbies	00:30	01:00	00:00	00:00	01:30
Transport	00:30	01:00	00:00	00:00	01:30
Feelings and Emotions	00:30	01:00	00:00	00:00	01:30
Travel	00:30	01:00	00:00	00:00	01:30
Profession	00:30	01:00	00:00	00:00	01:30
Workplace	00:30	01:00	00:00	00:00	01:30
Planning Ahead	00:30	01:00	00:00	00:00	01:30
Entertainment	00:30	01:00	00:00	00:00	01:30
Festivals	00:30	01:00	00:00	00:00	01:30

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Sports	00:30	01:00	00:00	00:00	01:30
Talking on the telephone	00:30	01:00	00:00	00:00	01:30
Etiquette in Public Places	00:30	01:00	00:00	00:00	01:30
Likes and Dislikes	00:30	01:00	00:00	00:00	01:30
Talking about the Past	00:30	01:00	00:00	00:00	01:30
Hygiene and Cleanliness	00:30	01:00	00:00	00:00	01:30
Environment	00:30	01:00	00:00	00:00	01:30
Technology	00:30	01:00	00:00	00:00	01:30
Paragraph Writing	00:30	01:00	00:00	00:00	01:30
Taking Notes	00:30	01:00	00:00	00:00	01:30
Letter Writing	00:30	01:00	00:00	00:00	01:30
Email Etiquette	00:30	01:00	00:00	00:00	01:30
Commonly Asked Questions in an Interview	00:30	01:00	00:00	00:00	01:30
Asking Questions in an Interview	00:30	01:00	00:00	00:00	01:30
Mock Interview	00:30	01:00	00:00	00:00	01:30
Writing a resume	00:30	01:00	00:00	00:00	01:30
Pre and Post interview communication	00:30	01:00	00:00	00:00	01:30
Total Duration	20:00	40:00	00:00	00:00	60:00

SECTION 1 **ASSESSMENT**

21	Body/Bodies which will carry out assessment: Following assessment agencies will carry out assessments: <ol style="list-style-type: none">1. Induslynk Training Services Pvt. Ltd.- Mercer- Mettl , Plot Number 85, Sector 44, Gurugram, India2. Aspiring Minds Assessment Pvt. Ltd.- 323, Udyog Vihar, Phase 2, Gurugram, Haryana3. CoCubes Technologies Pvt. Ltd.- 1205-1206, 12th Floor, Welldone Tech Park, Sohna Road, Gurugram 122002, Haryana4. Glocal Thinkers Pvt. Ltd.- 3704, DLF Phase IV, Near Galleria Market, Gurugram 122002, Haryana5. Life Sciences Sector Skill Development Council, 14, Palam Marg, 2nd Floor Rear, Vasari Vihar, New Delhi- 110057, India
22	How will RPL assessment be managed and who will carry it out? Assessment process for RPL programs (Candidates with experience in the occupation or for informally trained and employed trainees): <ul style="list-style-type: none">• Every RPL batch is uploaded on Skill Development Management System (SDMS) managed by National Skill Development Corporation (NSDC). SDMS reflects the proposed date of assessment for the batch. The batch is uploaded on SDMS by RPL project implementation agency.• LSSSDC conducts Assessments via its empaneled Assessment Agencies and assigns the batch to an assessment agency pre-notified with NSQC for the job role.• Assessment agency ensures the availability of required infrastructure, tools for the assessment.• Assessments for RPL candidates are conducted in following two modes: A) Theory and Skill Practical on a fully digital platform. B) Theory part digital and practical part through actual assessor observation.• The authenticity of Trainee's identity and eligibility is verified by project implementation agency by verifying the ID proof documents (any document issued by GOI, such as Aadhaar Card, Driving License, Passport, election card etc.) and experience proof (industry endorsement, experience letters)• Assessment agency collects evidences of the assessment in best possible way (video pictures, assessment logs etc.)• The assessment agency after processing the results and putting them in standard form hands over to LSSSDC within 7 days from the date of assessment.• LSSSDC validates the assessment results and announces the result on SDMS within 7 days of assessment date.• Passed candidates are provided with qualification certificate. Assessment tools: For the Training assessment, the assessment instrument development is done by the selected assessment body with close monitoring and support of LSSSDC at every stage. Digital Written test for knowledge assessment: <u>Scope</u> – Is used to test the knowledge component of the Qualification Pack. <u>Tools</u> – Computer or tab based online or offline.

Method – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

Digital Written test for skill assessment

Scope – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.

Tools – computer or tab based online or offline questions.

Method – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the area of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

Following assessment agencies will carry out assessments:

1. Induslynk Training Services Pvt. Ltd.- Mercer- Mettl , Plot Number 85, Sector 44, Gurugram, India
2. Aspiring Minds Assessment Pvt. Ltd.- 323, Udyog Vihar, Phase 2, Gurugram, Haryana
3. CoCubes Technologies Pvt. Ltd.- 1205-1206, 12th Floor, Welldone Tech Park, Sohna Road, Gurugram 122002, Haryana
4. Glocal Thinkers Pvt. Ltd.- 3704, DLF Phase IV, Near Galleria Market, Gurugram 122002, Haryana
5. Life Sciences Sector Skill Development Council, 14, Palam Marg, 2nd Floor Rear, Vasari Vihar, New Delhi- 110057, India

23 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.

Assessment Agencies: An assessment agency is selected based on

- Prior experience and understanding of Life Sciences or similar sector.
- Experience in conducting assessments for similar job roles.
- Manpower and Technical capabilities.
- Geographical reach
- Existing Network in the Life Sciences Sector
- Agency's internal policies to maintain Standards, Quality & professional Integrity
- Agency's policy in assessor management

Assessment development: The assessment development is done with close monitoring and under supervision of LSSSDC at every stage.

Steps for assessment development:

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

- Selection of assessment tool(s) is done as per the assessment criteria prescribed in Qualification Pack.
- For Effluent Treatment plant operator assessment a blue print of the question paper, is part of assessment tool for training.
- Development of lay-out of Question paper is such that the entire PCs (Performance Criteria) of that QP are covered.
- Score per question maps with the weightage given to that PC, in the assessment criteria and the level of difficulty of the question.
- An expert from industry is selected who is called “Subject Matter Expert” (SME). This SME must have over 13-15 years of experience in the industry in manufacturing occupation.
- SME is screened and approved by LSSSDC. He is the oriented by both LSSSDC and Assessment agency on – creating question Bank, level of questions, end desired outcome of the assessment.

Assessor: The Assessors are engaged to conduct the assessments. Assessor guidelines are followed as below:

Assessor Prerequisites						
Minimum Educational Qualification <Select the minimum educational requirements, such as 12 th Pass, Graduate or NSQF certified.>	Specialization <Specify the areas of specialization that are desirable.>	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate in Sciences	Environmental Sciences	5	Effluent Treatment Plant operations	1	On the job assessment/ Training experience/ Vocational assessment/ Academic assessment	
Post Graduate in Sciences	Environmental Sciences	3	Effluent Treatment Plant operations Or EHS operations in a	1	On the job assessment/ Training experience/ Vocational assessment/ Academic assessment	

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

			Manufacturing plant			
Assessor Certification						
Domain Certification			Platform Certification			
Effluent Treatment Plant Operator- Life Sciences (Pharma, Bio-Pharma & Research) Level 4 (LFS/Q02XX)			Assessor Level 5 (MEP/Q2701)			
Assessment process for fresh skill development programs (Short term without apprenticeship):						
<ul style="list-style-type: none">• Every fresh batch is uploaded on Skill Development Management System (SDMS) managed by National Skill Development Corporation (NSDC). SDMS reflects the Start date, end date of the training and date of assessment for the batch. The batch is uploaded on SDMS by Vocational Training Centre.• LSSSDC conducts Assessments via its empaneled Assessment Agencies and assigns the batch to an assessment agency pre-notified with NSQC for the job role.• Assessment agency ensures the availability of required infrastructure, tools for the assessment.• Assessments for Fresh candidates are conducted in mode of Theory and Viva for Skill Practical. Skill Viva is conducted by an Assessor.• In case an assessor is involved in the assessment methodology, the trainees are scheduled in such a way that an assessor shall not assess more than 30 candidates in a day.• Assessor and proctor from Assessment agency are present on the day of assessment to manage the process at assessment location.• The assessor carry Aadhaar card and which has been pre informed to the vocational training center.• Assessor ensures authenticity of Trainee's identity by verifying the documents (a document issued by GOI, such as Aadhar Card, Driving License, Passport, election card etc.)• Assessor collects evidences of the assessment in best possible way (videos, pictures etc.)• Proctor maintains the records of attendance, verified documents, and whatever other evidence of assessment as applicable.• Assessor maintains complete confidentiality of the score, compiles the data and documents and sends it to assessment agency.• In cases where 100% digital assessment methodology is used, the above verifications and document collection and maintenance is done by the proctor.• The assessment agency after processing the results and putting them in standard form hands over to LSSSDC within 7 days from the date of assessment.• LSSSDC validates the assessment results and announces the result on SDMS within 7 days of assessment date.• Passed candidates are provided with qualification certificate.						
Assessment tools: Assessment tools for a QP are decided based on composition of knowledge and skill in that QP. All assessments shall have at least two tools unless indicated otherwise. All assessments carry time allotment required per trainee, within which the assessment should be completed.						
Digital Written test for knowledge assessment:						

Scope – Is used to test the knowledge component of the Qualification Pack.

Tools – Computer or tab based online or offline.

Method – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

Digital Written test for skill assessment

Scope – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.

Tools – computer or tab based online or offline questions.

Method – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the area of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

Assessment process for Apprenticeship linked fresh skill development programs (Short term with apprenticeship):

The assessment for the Basic Training and On the Job Training will be conducted toward the end of the OJT duration.

Assessment Process:

The assessment will be in two parts as below:

Part 1: OJT Assessment

For OJT assessment the Industry nominated assessor will be assessing the candidates based on the OJT monitoring report submitted by Industry supervisor and Viva by the Industry nominated assessor

1.1 Industry nominated assessor:

The Assessors are engaged to conduct the assessments by Industry. The selection takes place as follows

- Industry defines the criteria for profile of an assessor.
- Assessor is a person who is currently working in the same industry on same or higher job role and has minimum 5-7 years of experience.
- Once selected, the assessor is oriented by Industry using LSSSDC guidelines on various aspects of the assessment and management of assessment, such as
 - QP and its background.
 - Training on Assessment methodology and how to use Assessment tools. Scoring system (as per the attached assessment guide)
 - Maintain integrity at the assessment site.
 - Crisis handling and support system available for the same.
 - Scope of his authorities
 - Administrative responsibilities.
 - Required documentation of Trainee credentials, mark sheet management.

- Confidentiality management.

1.2 Assessment Tool for OJT:

1.2.1 OJT Monitoring Report:

- As in Life Sciences Sector reproducing the evidence for assessment is not feasible due to constraints like cost, confidentiality and controlled environment, every apprentice is required to record the evidences performed during the OJT and the same gets authorized by his/her supervisor.
- The evidence recording is done in a structured monitoring report, termed as OJT monitoring report.
- During the OJT, every trainee is required to fill the OJT monitoring report which is required to be signed by his/her supervisor.
- Towards the end of OJT period these reports are submitted with the HR department of company
- These duly submitted reports are then verified by an Industry nominated assessor for verification of evidence.

1.2.2 Viva:

Scope – Is used to test the knowledge and understanding and skills acquired during the OJT as well as to conform the OJT monitoring report.

Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.

Tools – Direct dialogue between assessor and Trainee.

Method – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP

Analysis – Assessor draws a spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees within a batch of different institutes can be gauged.

1.3 Execution of OJT Assessment:

- HR department then hands over the individual OJT monitoring report with Industry nominated assessor and schedules an assessment meeting for each trainee
- Industry nominated assessor assesses each trainee based on OJT monitoring report, viva on each PC and attendance with each trainee towards the end of the OJT period.
- The OJT marks are compiled for each NOS by the Industry nominated assessor and submitted with HR department of company.
- The OJT assessment results are then sent to LSSSDC by HR department of company in a sealed envelope for compiling the assessment results.

Part 2: Basic Training Assessment

For Execution of the assessment for basic training, LSSSDC will be engaging more than one assessment agencies/ body.

2.1 Criteria of selection of assessment body/agency:

The assessment body/agency is selected on the basis of

- Prior experience and understanding of Life Sciences or similar sector.

- Experience in conducting assessments for similar job roles.
- Manpower and Technical capabilities.
- Geographical reach
- Existing Network in the Life Sciences Sector
- Agencies internal policies to maintain standards, quality & professional Integrity
- Agencies policy in assessor management

2.2 Assessment tool for Basic Training:

For the Basic training assessment, the assessment instrument development is done by the selected assessment body with close monitoring and support of LSSSDC at every stage.

2.2.1 Digital Written test for knowledge assessment:

Scope – Is used to test the knowledge component of the QP.

Tools –computer or tab based online or offline.

Method – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

2.2.2 Digital Written test for skill assessment:

Scope – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.

Tools – computer or tab based online or offline questions

Method – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.

Analysis – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.

2.3 Steps for assessment development:

- Selection of assessment tool(s) is done as per the assessment criteria prescribed in Qualification Pack.
- For Effluent Treatment plant operator assessment a blue print of the question paper, is part of assessment tool for basic training.
- Development of lay-out of Question paper is such that the entire PCs (Performance Criteria) of that QP are covered.
- Score per question maps with the weightage given to that PC, in the assessment criteria and the level of difficulty of the question.

- An expert from industry is selected who is called “Subject Matter Expert” (SME). This SME must have over 13-15 years of experience in the industry in same occupation.
- SME is screened and approved by LSSSDC. He is oriented by both LSSSDC and Assessment agency on – creating question Bank, level of questions, end desired outcome of the assessment.

2.4 Execution of Basic Training Assessment:

- Post the assessment schedule confirmation of all trainees due for assessments through Apprenticeship India portal, the assessment date for basic training is decided with common agreement of Industry and LSSSDC and LSSSDC directs it's an assessment body/agency.
- Assessment agency ensures the availability of required infrastructure, tools for the assessment.
- The assessment is executed in two possible ways depending on the choice of industry:

2.4.1 Tab based assessment using physical proctoring

2.4.2 Smart phone-based assessment using e-proctoring

2.4.1 Tab-based assessment using physical proctoring

- A representative from Assessment agency are present on the day of assessment to execute the assessment at venue in case of physical proctoring.
- Assessment agency representative carries an identity card and letter from the council authorising to conduct the assessment.
- Assessment agency representative ensures authenticity of Trainee's identity by verifying the documents (any document issued by GOI, such as Ration card, Aadhaar Card, Driving Licence, Passport, election card etc)
- Assessment agency representative maintains the records of attendance, verified documents and tablet instruments used in assessment.
- Assessment agency representative collects evidences of the assessment in best possible way (videos, pictures, voice recordings etc)
- Assessment agency representative transfer the assessment scores from tab to assessment agency server, using a secure, encrypted web-based program.
- The assessment agency after processing the results and putting them in standard format hands over to LSSSDC within 7 days of assessment.

2.4.2 Smart phone-based assessment using e-proctoring

- All trainees due for assessments are registered on a assessment tool application using their unique mobile number and e-mail ID along with a Govt. ID issued proof.
- An assessment link is sent to the mail ID of each trainee with a defined expiry date of the link.
- Trainee at any location can click on the link using his/her smart phone or a web camera enabled computer system
- Using the unique credentials and govt ID number, trainee logs in for start of assessment and completes the assessment.
- Authenticity of Trainee's identity is done by assessment application by verifying the documents (any document issued by GOI, such as Ration card, Aadhaar Card, Driving Licence, Passport, election card etc.) and a live photo capture
- A live video of candidate during the assessment is captured to collect the evidences of the assessment

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

- Once the assessment is complete, the assessment application automatically assesses scores to assessment agency server, using a secure, encrypted web-based program.
 - The assessment agency after processing the results and putting them in standard format hands over to LSSSDC within 7 days of assessment.
- Assessment Result compilation:**
- In case of offline OJT assessment -The OJT assessment results are sent to LSSSDC by HR department of company in a sealed envelope for compiling the assessment results.
 - LSSSDC cross checks and validates the data and declares the result to Industry and trainee.
 - In case of online OJT assessment-Industry nominated assessor certified by LSSSDC will be uploading the results on apprenticeshipindia.org portal.
 - Passed trainees are provided with certificate.
- Note: At any point of time assessment strategy would be as per the current guidelines from MSDE.
- LSSSDC Protocol for Accreditation of Assessment Agencies and Assessment Guideline Ver1.00 is attached as annexure 3

ASSESSMENT EVIDENCE

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
1. SGJ/N6601: Operate Wastewater Treatment Plant	Operate Wastewater Treatment Plant	10	25	0	0
	PC1. start the wastewater treatment plant by switching on the pumps, mixers, controllers and other equipments	2	5		
	PC2. perform the operation and cleaning of different screens	1	3		
	PC3. operate different valves in a wastewater treatment plant	1	2		
	PC4. charge the slurry tank	1	3		
	PC5. operate oil skimmer and fill drums as required	1	2		
	PC6. perform the addition of chemicals and microbes to treat water as required	1	3		
	PC7. facilitate the calibration of process control equipment as needed	1	2		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theor y	Skills Practic al	Proj ect	Viv a
	PC8. ensure that the sludge is handled properly	1	3		
	PC9. complete the documentation as required	1	2		
	Total	10	25	0	0
	<i>Monitor the working of Wastewater Treatment Plant</i>	18	27	0	0
	PC1. check all equipments and fill out daily activities log sheet.	3	5		
	PC2. ensure proper working of wastewater collection system.	2	4		
	PC3. monitor the working of wastewater pumping station and record any anomalies.	2	4		
	PC4. take chemical inventory and record the chemical and water usage daily.	3	4		
	PC5. monitor and record all meter and gauge readings.	2	6		
	PC6. visually inspect the discharge at delivery point periodically for anomalies.	4	2		
	PC7. prepare and maintain the operation records.	2	2		
	<i>Maintain the Wastewater Treatment Plant</i>	8	12	0	0
	PC8. perform maintenance on valves, filters, pumps, tanks and aerators.	2	4		
	PC9. perform general maintenance.	1	2		
	PC10. ensure the cleanliness work area and equipment.	1	2		
	PC11. assist in developing the estimates for repair, maintenance and construction activities in the wastewater treatment plant.	2	2		
	PC12. complete the documentation as required.	2	2		
2 SGJ/N6602: Monitor and Maintain the Wastewater Treatment Plant					

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
	Total	26	39	0	0
3. SGJ/N6605: Work Safety at Wastewater treatment plant	Work safety at Wastewater treatment plant	20	30	0	0
	PC1. identify the hazards associated with different tasks in a wastewater treatment plant	5	7		
	PC2. inform the concerned person of the accident and hazard occurred	2	3		
	PC3. select the right personal protective equipment for different tasks in a waste treatment plant	5	7		
	PC4. perform the changing of chlorine cylinders safely	3	5		
	PC5. ensure safe storage of corrosive substances	3	5		
	PC6. ensure health & safety by following company policies & processes and industry standards for work safety	2	3		
	Total	20	30	0	0
4. LFS/N0262: Carry out GMP-critical (Good Manufacturing Practices) activities and their documentation	GMP-critical activities prior to effluent treatment	10	15		
	PC1. take the shift handover as per the SOP				
	PC2. inspect ETP equipment for safety checks and leakage regularly				
	PC3. ensure the display of specific labels for a designated area for hazardous chemicals				
	PC4. ensure availability of Material Safety Data Sheets (MSDS) in ETP area for all the chemicals in use				
	GMP-critical activities during ETP operations	10	15		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
	PC5. operate spill control equipment in ETP area				
	PC6. perform the filtration of treated water as per SOP and transfer treated water for reuse as per SOP				
	PC7. ensure the collection of effluent water samples before and after treatment as per GMP and Good Laboratory Practices (GLP) guidelines for sampling				
	PC8. Laboratory Practices (GLP) guidelines for sampling				
	PC9. ensure testing, analysis, and reporting of collected samples				
	PC10. check the pH of the sample and record as per SOP				
	PC11. ensure to send parallel samples to an inhouse (established in the organization) environmental lab and vigilance samples taken by authorities to a regulatory environmental lab for analysis				
	GMP-critical activities post effluent treatment	10	15		
	PC12. maintain the leachate (landfill) treatment facility (if available) for hazardous chemicals				
	PC13. perform waste disposal as per environmental and GMP regulations under the guidance of the supervisor				
	Reporting and Documentation	8	12		
	PC14. prepare an ETP performance report				
	PC15. comply EC (environmental clearance), CTE (consent to establishment) & CTO (Consent to operations)				

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theor y	Skills Practic al	Proj ect	Viv a
	condition wise compliance report				
	PC16. submit the reports to internal stakeholders and statutory authority as per regulations				
	PC17. submit periodic reports to supervisor as per SOP				
	PC18. document all the control steps are undertaken or recommended to be followed as per the standards				
	Environment sustainability	2	3		
	PC19. ensure energy conservation by switching off the machine and equipment post operations				
	PC20. identify ways to optimize the usage of electricity/ energy in various				
	PC21. tasks/ activities/ processes				
	PC22. ensure energy conservation by optimizing the ETP plant machine/ equipment performance				
	PC23. identify recyclable and non-recyclable, and hazardous waste generated				
	PC24. segregate waste into different categories to achieve minimum pollution of land and water				
	Total	40	60	0	0
	Coordination with Supervisor	10	20	0	0
	PC1. follow work instructions received from the reporting supervisor				
5.LFS/N0263: Coordinate with	PC2. communicate process-flow improvements, production defects received from the previous process, repairs and maintenance of				

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theor y	Skills Practic al	Proj ect	Viv a
EHS Supervisor & team and respond to audit queries	equipment to reporting supervisor				
	PC3. submit periodic reports to the supervisor as per SOP				
	Coordination within the team and cross- functional Teams	15	20	0	0
	PC4. support team members and colleagues of other departments in work				
	PC5. take handover from previous shift operator and give handover to next shift operator as per SOP				
	PC6. find solutions to workflow related difficulties with mutual agreement				
	PC7. coordinate with QA for ETP plant validation at a routine interval as per SOP				
	PC8. conduct regular Toolbox Talk with helpers to improve safety observation and system				
	PC9. provide inputs to the concerned stakeholders in periodic fence line review to detect non-compliance				
	PC10. evaluate the impact of trending regulatory and statutory guideline updates, and communicate the same to internal stakeholders and EHS Incharge				
	Respond to audit queries	10	15	0	0
	PC11. interact with the auditor in their preferred language as per their comfort				
	PC12. provide clear answers to the auditor's queries				
	PC13. produce the documented records of				

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
	performed activities and operations to auditors				
	PC14. maintain data integrity while responding to auditors and regulatory inspectors				
	<i>Sensitivity towards all genders and people with disability</i>	5	5	0	0
	PC15. respect all the genders, religions, and caste				
	PC16. empathize with the people with disability				
	PC17. offer support or help to a person with disability only when asked				
	PC18. ensure to adhere with the guidelines laid in Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act				
	PC19. report any violation of prevention of sexual harassment (POSH) rules immediately to the POSH committee				
	Total	40	60	0	0
	<i>Listen</i>	4	20	0	0
	PC1. follow English phrases and expressions related to areas of personal, social and professional domains provided speech is clearly articulated	0	4		
	PC2. follow the general outline of a demonstration or presentation on a familiar or predictable topic, where the message is expressed in simple English language and there is visual support (e.g. slides, handouts)	2	4		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
6.MEP/N9993: Use Basic English for Employability - Variant III	PC3. follow and correctly interpret instructions delivered in English, addressed to him/her and follow short, simple directions	0	4		
	PC4. interpret correctly, when someone tells him/her in English, where something is, provided the object is in the immediate environment	0	4		
	PC5. follow questions in English, on basic themes addressed to him/her, though the questions may need to be repeated	2	4		
	Speak	8	48	0	0
	PC6. converse with others including with customers, in English, on basic everyday themes, in limited, familiar contexts, with factual information	2	4		
	PC7. ask and respond to basic direct questions in English, in an interview, spoken clearly in direct non-idiomatic speech about personal details	2	4		
	PC8. describe him/herself (e.g. interests, likes and dislikes, goals and desires) in English, using simple, rehearsed sentences	2	5		
	PC9. read-out basic, short rehearsed texts or statements of English accurately, with short pauses	0	5		
	PC10. speak over the phone in English, in an audible manner, using appropriate greetings, opening and closing statements	0	5		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theor y	Skills Practic al	Proj ect	Viv a
	PC11. speak in public places using a tone, pitch and manner that is socially appropriate	0	5		
	PC12. read and understand routine information and instructions in English, and the basic meaning of non-routine information only in a familiar area and re-reading as required	0	5		
	PC13. read short, simple English texts on familiar matters which consist of high frequency, every day or job-related language	0	5		
	PC14. read very basic formal English emails and letters and correctly interpret them (e.g. information being provided or asked for, confirmation of transactions, etc.)	0	5		
	PC15. read and correctly interpret simple, brief instructions provided that they are illustrated and not written in continuous text	2	5		
	Write	4	16	0	0
	PC16. write short, basic messages and take notes on areas of immediate priority and can complete forms and necessary paperwork, in English	0	4		
	PC17. write basic letters in English, with accuracy to communicate the main message and specific details	2	4		
	PC18. write email in English, using professional protocols and following email etiquette	2	4		
	PC19. write information or descriptive text in short	0	4		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Marks Allocation					
Assessment outcomes	Assessment Criteria for outcomes	Theory	Skills Practical	Project	Viva
	paragraphs, in English, accurately and in a logical flow				
	Total	16	84	0	0

24. Assessment evidences

Title of Component: **1. SGJ/N6601: Operate Wastewater Treatment Plant**

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Operate Wastewater Treatment Plant	PC1. start the wastewater treatment plant by switching on the pumps, mixers, controllers and other equipments
	PC2. perform the operation and cleaning of different screens
	PC3. operate different valves in a wastewater treatment plant
	PC4. charge the slurry tank
	PC5. operate oil skimmer and fill drums as required
	PC6. perform the addition of chemicals and microbes to treat water as required
	PC7. facilitate the calibration of process control equipment as needed
	PC8. ensure that the sludge is handled properly
	PC9. complete the documentation as required
Means of assessment 1	<p>Digital Written test for knowledge assessment:</p> <p><u>Scope</u> – Is used to test the knowledge component of the Qualification Pack.</p> <p><u>Tools</u> – Computer or tab based online or offline.</p> <p><u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 2	<p>Digital Written test for skill assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.</p> <p><u>Tools</u> – computer or tab based online or offline questions.</p> <p><u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 3	<p>Project Assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in utilization of knowledge and skills in real life job scenarios</p> <p><u>Tools</u> – Project report.</p> <p><u>Method</u> – The trainee is deployed in Industry for on the job trainee or is being asked to work on a specific project (utilizing skills as per qualification pack). A project report duly endorsed by his/her project supervisor is prepared by the trainee and submitted for evaluation. The Assessor asks Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions based on the project report</p> <p><u>Analysis</u> –Project Assessments are analysed on knowledge and skill component.</p>
Means of assessment 4	<p>Viva</p> <p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p> <p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p><u>Analysis</u> – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees with in a batch or different institutes can be gauged</p>
Pass/Fail	<p>The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there ,the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.</p>

Title of Component: 2. SGJ/N6602: Monitor and Maintain the Wastewater Treatment Plant

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Monitor the working of Wastewater Treatment Plant	PC1. check all equipments and fill out daily activities log sheet.
	PC2. ensure proper working of wastewater collection system.
	PC3. monitor the working of wastewater pumping station and record any anomalies.
	PC4. take chemical inventory and record the chemical and water usage daily.
	PC5. monitor and record all meter and gauge readings.
	PC6. visually inspect the discharge at delivery point periodically for anomalies.
	PC7. prepare and maintain the operation records.
Maintain the Wastewater Treatment Plant	PC8. perform maintenance on valves, filters, pumps, tanks and aerators.
	PC9. perform general maintenance.
	PC10. ensure the cleanliness work area and equipment.
	PC11. assist in developing the estimates for repair, maintenance and construction activities in the wastewater treatment plant.
	PC12. complete the documentation as required.

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Means of assessment 1	Digital Written test for knowledge assessment: <u>Scope</u> – Is used to test the knowledge component of the Qualification Pack. <u>Tools</u> – Computer or tab based online or offline. <u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses. <u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.
Means of assessment 2	Digital Written test for skill assessment <u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested. <u>Tools</u> – computer or tab based online or offline questions. <u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations. <u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.
Means of assessment 3	Project Assessment <u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in utilization of knowledge and skills in real life job scenarios <u>Tools</u> – Project report. <u>Method</u> – The trainee is deployed in Industry for on the job trainee or is being asked to work on a specific project (utilizing skills as per qualification pack). A project report duly endorsed by his/her project supervisor is prepared by the trainee and submitted for evaluation. The Assessor asks Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions based on the project report <u>Analysis</u> –Project Assessments are analysed on knowledge and skill component.

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Means of assessment 4	<p>Viva</p> <p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p> <p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p> <p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p>Analysis – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees with in a batch or different institutes can be gauged</p>
Pass/Fail	<p>The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there ,the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.</p>

Title of Component: 3. SGJ/N6605: Work Safety at Wastewater treatment plant

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Work safety at Wastewater treatment plant	PC1. identify the hazards associated with different tasks in a wastewater treatment plant
	PC2. inform the concerned person of the accident and hazard occurred
	PC3. select the right personal protective equipment for different tasks in a waste treatment plant
	PC4. perform the changing of chlorine cylinders safely
	PC5. ensure safe storage of corrosive substances
	PC6. ensure health & safety by following company policies & processes and industry standards for work safety
Means of assessment 1	<p>Digital Written test for knowledge assessment:</p> <p><u>Scope</u> – Is used to test the knowledge component of the Qualification Pack.</p> <p><u>Tools</u> – Computer or tab based online or offline.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p><u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 2	<p>Digital Written test for skill assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.</p> <p><u>Tools</u> – computer or tab based online or offline questions.</p> <p><u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 3	<p>Project Assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in utilization of knowledge and skills in real life job scenarios</p> <p><u>Tools</u> – Project report.</p> <p><u>Method</u> – The trainee is deployed in Industry for on the job trainee or is being asked to work on a specific project (utilizing skills as per qualification pack). A project report duly endorsed by his/her project supervisor is prepared by the trainee and submitted for evaluation. The Assessor asks Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions based on the project report</p> <p><u>Analysis</u> –Project Assessments are analysed on knowledge and skill component.</p>
Means of assessment 4	<p>Viva</p> <p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p> <p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p>Analysis – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees with in a batch or different institutes can be gauged</p>
<p>Pass/Fail</p>	<p>The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there ,the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.</p>

Title of Component: 4. LFS/N0262: Carry out GMP-critical (Good Manufacturing Practices) activities and their documentation

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
<p>Routine Checks and maintenance for ETP Operations in Life Sciences Sector</p>	PC1. take the shift handover as per the SOP
	PC2. perform the Filtration of treated water as per SOP and transfer treated water for reuse as per SOP
	PC3. inspect ETP equipment for safety checks and leakage on a regular basis
	PC4. ensure the effluent samples before and after treatment as per SOP and carryout/ensure testing/analysis and reporting as per SOP
	PC5. check pH of the sample and record as per SOP
	PC6. take the parallel samples when authorities collect vigilance samples and send them to an environmental lab for analysis
	PC7. ensure display of specific labels for a designated area for hazardous chemicals and availability of Material Safety Data Sheet
	PC8. maintain the leachate (landfill) treatment facility (if available) for hazardous chemicals
	PC9. operate spill control equipment at ETP area

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

		PC10. perform Waste Disposal as per Regulations and SOP under the guidance of a supervisor
Reporting Documentation	and	PC11. prepare an ETP performance report
		PC12. comply EC (environmental clearance), CTE (consent to establishment) & CTO (Consent to operations) condition wise compliance report
		PC13. submit the reports to internal stakeholders and statutory authority as per regulations
		PC14. submit periodic reports to supervisor as per SOP
		PC15. document all the control steps are undertaken or recommended to be followed as per the standards
Means of assessment 1		<p>Digital Written test for knowledge assessment:</p> <p><u>Scope</u> – Is used to test the knowledge component of the Qualification Pack.</p> <p><u>Tools</u> – Computer or tab based online or offline.</p> <p><u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 2		<p>Digital Written test for skill assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.</p> <p><u>Tools</u> – computer or tab based online or offline questions.</p> <p><u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 3		Viva

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p> <p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p> <p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p>Analysis – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor.</p> <p>Comparative quality of trainees with in a batch or different institutes can be gauged</p>
Pass/Fail	<p>The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there ,the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.</p>

Title of Component: LFS/N0263: Coordinate and communicate with EHS Supervisor, teams and auditors

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Coordination with Supervisor	PC1. receive work instructions from reporting supervisor
	PC2. communicate to reporting supervisor about process-flow improvements, production defects received from the previous process, repairs and maintenance of equipment as required
	PC3. submit periodic reports to supervisor as per SOP
Coordination within Team and Cross- functional Teams	PC4. work as a team with colleagues and share work as per their or own workload and skills
	PC5. work and support colleagues of other departments

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p>PC6. take handover from previous shift operator and give handover to next shift operator as per SOP and enquire for any important information/ deviation</p> <p>PC7. communicate and discuss workflow related difficulties in order to find solutions with mutual agreement</p> <p>PC8. provide the meaning and purpose of the information shared to team members</p> <p>PC9. coordinate with QA for ETP plant validation at a routine interval as per SOP</p> <p>PC10. conduct regular Toolbox Talk with helpers to improve safety observation and system</p> <p>PC11. participate in periodic Fence line review to identify non-compliance with respect to the environment</p> <p>PC12. participate in tracking the latest regulatory and statutory guideline updates, evaluate the impact and communicate with internal stakeholders and EHS Incharge</p>
Respond to audit queries	<p>PC13. interact with auditor in a language he/ she (job role holder) is comfortable</p> <p>PC14. understand the query clearly and give an honest and clear answer</p> <p>PC15. produce the documented records for activities performed</p> <p>PC16. maintain data integrity while responding to auditors and regulatory inspectors</p> <p>PC17. follow guidelines for ethics and compliance in the life sciences industry</p>
Sensitivity towards genders and people with disability	<p>PC18. demonstrate respect towards all genders, religions, and caste</p> <p>PC19. demonstrate respect towards people with disability for their work and skills</p> <p>PC20. empathize the specially-abled persons and ask before offering support or help to a specially-abled person at the workplace</p> <p>PC21. demonstrate adherence with the guidelines laid in Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act</p> <p>PC22. report any violation of prevention of sexual harassment (POSH) rules immediately to the POSH committee</p>
Means of assessment 1	<p>Digital Written test for knowledge assessment: <u>Scope</u> – Is used to test the knowledge component of the Qualification Pack. <u>Tools</u> – Computer or tab based online or offline.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p><u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 2	<p>Digital Written test for skill assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.</p> <p><u>Tools</u> – computer or tab based online or offline questions.</p> <p><u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 3	<p>Viva</p> <p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p> <p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p> <p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p><u>Analysis</u> – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees with in a batch or different institutes can be gauged</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

Pass/Fail

The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there, the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.

Title of Component: 6. MEP/N9993: Use Basic English for Employability - Variant III

Outcomes to be assessed/NOSs to be assessed	Assessment criteria for the outcome
Listen	PC1. follow English phrases and expressions related to areas of personal, social and professional domains provided speech is clearly articulated
	PC2. follow the general outline of a demonstration or presentation on a familiar or predictable topic, where the message is expressed in simple English language and there is visual support (e.g. slides, handouts)
	PC3. follow and correctly interpret instructions delivered in English, addressed to him/her and follow short, simple directions
	PC4. interpret correctly, when someone tells him/her in English, where something is, provided the object is in the immediate environment
	PC5. follow questions in English, on basic themes addressed to him/her, though the questions may need to be repeated
Speak	PC6. converse with others including with customers, in English, on basic everyday themes, in limited, familiar contexts, with factual information
	PC7. ask and respond to basic direct questions in English, in an interview, spoken clearly in direct non-idiomatic speech about personal details

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<p>PC8. describe him/herself (e.g. interests, likes and dislikes, goals and desires) in English, using simple, rehearsed sentences</p> <p>PC9. read-out basic, short rehearsed texts or statements of English accurately, with short pauses</p> <p>PC10. speak over the phone in English, in an audible manner, using appropriate greetings, opening and closing statements</p> <p>PC11. speak in public places using a tone, pitch and manner that is socially appropriate</p> <p>PC12. read and understand routine information and instructions in English, and the basic meaning of non-routine information only in a familiar area and re-reading as required</p> <p>PC13. read short, simple English texts on familiar matters which consist of high frequency, every day or job-related language</p> <p>PC14. read very basic formal English emails and letters and correctly interpret them (e.g. information being provided or asked for, confirmation of transactions, etc.)</p> <p>PC15. read and correctly interpret simple, brief instructions provided that they are illustrated and not written in continuous text</p>
Write	<p>write short, basic messages and take notes on areas of immediate priority and can complete forms and necessary paperwork, in English</p> <p>write basic letters in English, with accuracy to communicate the main message and specific details</p> <p>write email in English, using professional protocols and following email etiquette</p> <p>write information or descriptive text in short paragraphs, in English, accurately and in a logical flow</p>
Means of assessment 1	<p>Digital Written test for knowledge assessment:</p> <p><u>Scope</u> – Is used to test the knowledge component of the Qualification Pack.</p> <p><u>Tools</u> – Computer or tab based online or offline.</p> <p><u>Method</u> – objective type questions, match the columns, fill in the blanks, tick the odd man out, choose the correct option, choose the best answer, True or false, Identify the object, tool or machinery, arrange in proper sequence, case study, scenario-based responses.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular knowledge field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	consolidated mark gives the overall rating of the trainee.
Means of assessment 2	<p>Digital Written test for skill assessment</p> <p><u>Scope</u> – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the situation is tested.</p> <p><u>Tools</u> – computer or tab based online or offline questions.</p> <p><u>Method</u> – A situation is narrated or created in the question posed to the trainee and he is asked objective type questions to select the correct reaction to the situation. The selected situations are based on real situations.</p> <p><u>Analysis</u> – Question paper is divided in sections. Each Section intends to assess a particular skill field of the trainee. Thus, section wise calculation of marks gives the clear idea of the areas of improvement or expertise of the trainee. While a consolidated mark gives the overall rating of the trainee.</p>
Means of assessment 3	<p>Viva</p> <p><u>Scope</u> – Is used to test the knowledge and understanding and breadth of awareness about the subject.</p> <p>Some personality traits and generic skills (such as – promptness, sharpness, communication skills, depth of knowledge, comprehension, presentation, patience etc) can also be tested required for the QP.</p> <p><u>Tools</u> – Direct dialogue between assessor and Trainee.</p> <p><u>Method</u> – Direct questions open and close ended questions, situation-based questions, analytical questions, and decision-making based questions. Different questions are included to test relevant PCs from the QP</p> <p><u>Analysis</u> – Assessor is provided with spectrum of ready answers to be expected from trainee. This reduces effect of subjectivity of the assessor. Comparative quality of trainees with in a batch or different institutes can be gauged</p>
Pass/Fail	<p>The aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment, Project and Viva is 70%. In case of RPL where Project will not be there ,the aggregate pass marks for Digital Written test for knowledge assessment, Digital Written test for skill assessment and Viva shall also be 70%.</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

NSQC Approved

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

SECTION 2

25. EVIDENCE OF LEVEL

Title/Name of the qualification/Component:			Level:
NSQF Domain	Key requirements of the job role	How the job role relates to the NSQF level descriptors	NSQF level
Process	<p>Few of the job elements, expected to be performed by Effluent Treatment Plant Operator- Life Sciences are:</p> <ul style="list-style-type: none"> Operate wastewater treatment plant Monitor the working of wastewater treatment plant Maintain the wastewater treatment plant Work safety at wastewater treatment plant Routine checks and maintenance for ETP operations in Life Sciences Sector 	<p>Effluent Treatment Plant (ETP) Operator operates a wastewater treatment plant as per the SOPs followed in the Life Sciences Sector. He/she is responsible to monitor and maintain wastewater treatment plant by routinely following the work safety guidelines and checking the maintenance of ETP Operations throughout the job functions. He/she is also responsible to perform reporting and documentation. All the above performance outcomes are routine and common in all the work assigned to ETP Operator, hence they are categorized as familiar and predictable processes where the ETP Operator has a situation of clear choice.</p>	4
Professional Knowledge	<p>Few of the job elements, expected to be performed by Effluent Treatment Plant Operator- Life Sciences are:</p> <ul style="list-style-type: none"> Operate wastewater treatment plant Monitor the working of wastewater treatment plant 	<p>To perform the tasks given in the left-hand side box, ETP Operator needs to have the factual knowledge of wastewater treatment plant, how to routinely monitor and maintain the</p>	4

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<ul style="list-style-type: none"> • Maintain the wastewater treatment plant • Work safety at wastewater treatment plant • Routine checks and maintenance for ETP operations in Life Sciences Sector • Coordinate with EHS Supervisor & team and respond to audit queries • Use Basic English for Employability 	<p>wastewater treatment plant by recalling the work safety guidelines. The job holder should also be efficient to coordinate with EHS Supervisor & team and respond to audit queries by using basic English language sentences, expressions and text to meet the communication needs to fulfill work requirements of ETP Operator</p>	
<p>Professional Skills</p>	<p>Few of the job elements, expected to be performed by Effluent Treatment Plant Operator- Life Sciences are:</p> <ul style="list-style-type: none"> • start the wastewater treatment plant by switching on the pumps, mixers, controllers and other equipments • monitor the working of wastewater pumping station and record any anomalies. • visually inspect the discharge at delivery point periodically for anomalies. • perform maintenance on valves, filters, pumps, tanks and aerators • identify the hazards associated with different tasks in a wastewater treatment plant • inspect ETP equipment for safety checks and leakage on a regular basis • operate spill control equipment at ETP area • Reporting and documentation • Respond to audit queries 	<p>To perform the tasks of Effluent Treatment Plant Operator the job holder utilizes professional skills like Analytical Skills, Critical Skills, Problem Solving, Decision Making. For timely maintenance of wastewater/effluent treatment plant uses the planning and organizing skills as well as customer-centricity is required when he/she responds to audits.</p> <p>The scope of utilization of all above professional skills remains limited to routine and repetitive and for a narrow range of applications</p>	<p>4</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

<p>Core Skills</p>	<p>Few of the job elements, expected to be performed by Effluent Treatment Plant Operator- Life Sciences are:</p> <ul style="list-style-type: none"> • Reporting and documentation • Coordination with supervisor • Coordination within teams and cross-functional teams • Respond to audit queries • Sensitivity towards gender and people with disability • Use Basic English for Employability 	<p>To perform the tasks written on the left-hand side box, Effluent Treatment Plant Operator uses basic English language for communication in written or oral mode.</p> <p>For reporting and documentation proposed, he/she applies the basics of arithmetic and algebraic principles.</p> <p>For coordination related tasks and ensuring compliance to organizational SOPs and regulatory requirements, he/she is expected to have a basic understanding of the social-political and natural environment at the place of work/ organization he/she is working for.</p>	<p>4</p>
<p>Responsibility</p>	<p>Few of the job elements, expected to be performed by Effluent Treatment Plant Operator- Life Sciences are:</p> <ul style="list-style-type: none"> • Operate wastewater treatment plant • Monitor the working of wastewater treatment plant • Maintain the wastewater treatment plant • Work safety at wastewater treatment plant • Routine checks and maintenance for ETP operations in Life Sciences Sector • Reporting and documentation • Coordination with supervisor • Coordination within teams and cross-functional teams 	<p>Effluent Treatment Plant Operator- Life Sciences has responsibility for his/her work and learning and supports to Incharge and EHS team to ensure effluent treatment team. And in case of a scenario/situation of no clear choice, he is expected to take guidance from the supervisor.</p>	<p>4</p>

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

	<ul style="list-style-type: none">• Respond to audit queries• Sensitivity towards gender and people with disability• Use Basic English for Employability		
--	--	--	--

NSQC Approved

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

SECTION 3

EVIDENCE OF NEED

26 What evidence is there that the qualification is needed? What is the industry relevance of this qualification and what is the basis of this?

Need of the qualification

LSSSDC has prepared a skill gap report forecasting the need for this job role both on a short-term and long-term basis.

Additionally, all the industries that have validated the qualification have expressed the need for this qualification considering the futuristic need.

Industry Relevance

S.No	Name of Organization
1	Biocon Limited
2	Geltech Pvt Ltd.
3	Acharya & BM Reddy College
4	BioQuest Solution
5	Bioclinica
6	Mankind
7	Serum
8	Solara Active Pharma Sciences Ltd.
9	GSK Pharmaceuticals India
10	Recipharma Pharmservices Pvt. Ltd.,
11	Kemwell Biopharma Pvt. Ltd.
12	Ontop Pharma (P) Ltd.
13	Group Pharma Malur
14	Synthokem
15	Reliance Life sciences
16	IPCA
17	Sun Pharmaceutical Industries Ltd.
18	DRL
19	Johnson & Johnson Pvt Ltd.
20	M/s. Unichem Laboratories Limited
21	Micro labs Ltd.
22	Glenmark Pharmaceutical Ltd.
23	Aurobindo Pharma Ltd.
24	Amneal Pharmaceuticals Pvt. Ltd.
25	Akums Drugs and Pharmaceutical Ltd.
26	East African India Overseas
27	Belco Pharma
28	Unimark Healthcare Ltd.
29	DrugFarm Laboratories
30	MaxTar Bio-Genics
31	Medicam Organics Ltd.
32	Bal Pharma Limited Unit 1

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

		33	Anglo French Drugs and Industries Ltd.
		34	S.V Organics Pvt. Ltd.
		35	Nakoda Chemicals Ltd.
		36	Covalent Laboratories Pvt. Ltd.
		37	Umed Pharma Labs Pvt. Ltd.
	Usage of qualification	LSSSDC would submit periodic details (directly/Via NSDC) of the employment generated (wherever applicable) and realize under training in the Qualifications post-approval of NSQC and implementation of the qualification.	
	Estimated uptake	LSSSDC has prepared a skill gap report forecasting the year wise estimated uptake. The forecasted uptake is given as annexure-4.	
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences		
	The job role of Effluent Treatment Plant Operator- Life Sciences (Pharma, Bio-Pharma & Research) has been approved by Ministry of Environment, Forest and Climate Change.		
28	<p>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</p> <p>Before submission of the qualification to NSQC we have evaluated an NSQC approved Qualification of Wastewater Treatment Plant Technician from Skill Council for Green Jobs. Through the functional analysis approved by industry we did a comparative analysis with Wastewater Treatment Plant Technician qualification which is enclosed (annexure 6) as one of the evidence. Based on the comparative analysis we have found that there are some functions of ETP operator in life sciences sector that are not covered in the Wastewater Treatment Plant Technician. So we added the two NOSs and adopted all three NOS available in Wastewater Treatment Plant Technician. Hence following NOS have been adopted from Wastewater Treatment Plant Technician QP:</p> <ol style="list-style-type: none"> 1. SGJ/N6601: Operate Wastewater Treatment Plant 2. SGJ/N6602: Monitor and Maintain the Wastewater Treatment Plant 3. SGJ/N6605: Work Safety at Wastewater treatment plant 		

NSQF QUALIFICATION FILE

Approved in 23th NSQC, Dated: 22 September, 2020

29	<p>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</p> <p>Workshops with Industry Associations of Employers are part of a continuous awareness drive and will be utilized as a channel to get continual feedback from Industry.</p> <p>SSC will be engaged with Training Providers and Authorised educational institutions, who are imparting training as per QP guidelines, to gather feedback in implementation</p> <p>Monitoring of candidate Assessment Result will be carried out</p> <p>Employer feedback will be sought post placement of trainee's batch</p> <p>A formal review is scheduled in a four-year time frame</p>
----	--

SECTION 4

EVIDENCE OF PROGRESSION

30	<p>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?</p> <p><i>Show the career map here to reflect the clear progression</i></p> <p>Mobility options to other qualifications are enabled through the alignment of educational qualifications and prior work experience stated as a requirement in the respective qualifications. For Example:</p> <p>After 3-4 years of Industry work experience as Effluent Treatment Plant Operator post-qualifying the certification of Effluent Treatment Plant Operator- Life Sciences (Pharma, Bio-Pharma & Research), a candidate has an option to qualify for Executive- EHS (Level 5) as an upward progression.</p> <p>Effluent Treatment Plant Operator also has an option to qualify for Wastewater Treatment Plant Technician (Level- 4) Sector- Skill Council for Green Jobs as a horizontal progression.</p> <p>Also, have a horizontal progression across manufacturing and R&D based sectors as well as in the Municipal Corporation and Gram Panchayat as Wastewater Treatment Plant Technician.</p>
----	---