NSDA Reference
To be added by NSDA

QUALIFICATION FILE – CONTACT DETAILS OF SUBMITTING BODY

Name and address of submitting body:

Life Sciences Sector Skill Development Council

13, Palam Marg, 3rd 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: Director- NOS Development & Curriculum 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. RFP for development of Occupational Standards detailing the selection process as well
3. Profile of Project Team from Consultant (Inclusive of Industry Expert)
4. LSSSDC Protocol for Accreditation of Assessment Agencies and Assessment Guideline Ver 1.00.
5. Sample of Assessors Guide
6. Minutes of meeting of Governing Body
    a. Composition of National Committee of NOS
    b. Approval of Occupational Standards by National Committee and Governing Body
7. NSDC Sector Skill Gap Report for Life Sciences Sector is available at http://nsdcindia.org/sites/default/files/files/Pharmaceuticals.pdf
8. Occupational Map and Career Progression Map

9. Draft MoU with Industry
10. List of companies and Industry associations participated in the development of these qualification packs
11. List of QP/NOS validating companies (Under Development)

QUALIFICATION FILE SUMMARY

Qualification Title	Lab Technician/ Assistant- Life Sciences (LFS/ Q 0509)
Body/bodies which will assess candidates	Life Sciences Sector Skills Council
Body/bodies which will award the certificate for the qualification.	Life Sciences Sector Skills Council
Body which will accredit providers to offer the qualification.	Life Sciences Sector Skills Council
Occupation(s) to which the qualification gives access	Lab Technician- Life Sciences is also known as Lab Assitant- Life Sciences and falls under Research & Development Occupation. The Job role holder is responsible to set up the lab equipment and apparatus for smooth execution of experiments and tests, to provide all the required technical support to ensure laboratory activities are carried out while adhering to correct procedures and health and safety guidelines. Individual also ensures that all the necessary equipment's, materials etc. are readily available and match the desired standards. The Job requires the knowledge of Laboratory appratus, consumables and glassware. The Individual applies technical skills like, glassware cleaning, equipment set up, sample preparation and professional skills like planning and organizing, analytical thinking, critical thinking and problem sovling along with communication skills. The individual has responsibility of own work within defined limit and work under close supervision.
Proposed level of the qualification in the NSQF.	Level 3
Anticipated volume of training/learning required to complete the qualification.	230 Hours
Entry requirements / recommendations.	10^{th} / 10+2 (Preferred)
Progression from the qualification.	**Upward progression:** Store Chemist/ Supervisor/ Incharge – Finished Goods – Life Sciences (Level 4) Store Chemist/ Supervisor/ Incharge – Raw Materials – Life Sciences (Level 4) **Lateral/ Horizontal progression:** QC Assistant – Visual Inspection/ Visual Inspector – Life Sciences (Level 3) Store Assistant/ Helper – Life Sciences (Level 3)
Planned arrangements for RPL.	RPL arrangements and policies are under development.
International Comparability	While preparing the NOSs, a 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: UK NOS • COGLS206 Preparing reagents in life sciences and related industries • COGLS205 Maintain stocks of resources, equipment and consumables in life sciences and related industries

	• COGLS2 Maintain effective and efficient working relationships • COGLS215 Carry out sampling operations in life sciences • SFHPHARM22 Assist in the preparation of documentation, materials and other items for manufacture and assembly of medicinal products • COGLS202 Maintain effective and efficient working relationships in life Sciences and related industries • COGPIO3.2 control emergencies • COGLS201 Follow health and safety procedures in life sciences • COGLS301 Maintain health and safety in life sciences Switzerland NOS • Refer page no. 190 Unit Group 3212 Australia NOS • Handle dangerous goods/hazardous substances • Communicate workplace information • Participate in OHS processes • Participate in work teams and groups South Africa NOS • Act in accordance with ethical and legal codes of pharmaceutical representation and the laws of the country

Formal structure of the qualification

Title of unit or other component (include any identification code used)	**Mandatory/ Optional**	**Estimated size (learning hours)**	**Level**
LFS/N0530: To help the lab/QC Chemists/ Research Associates in performing the experiments and analysis.	Mandatory	30	Level 3
LFS/N0531: To carry out washing, processing and drying of the glassware/plastic ware for experimentation	Mandatory	20	Level 3
LFS/N0532: To carry out preparation of solution and reagents	Mandatory	50	Level 3
LFS/N0533: To ensure appropriate measures are taken while opening of chemicals to be used in analysis	Mandatory	20	Level 3
LFS/N0534: To maintain records of lab usage, storage of chemicals, labels, date of opening and closing	Mandatory	30	Level 3
LFS/N0535: To reprocess the instruments before carrying out experiments	Mandatory	20	Level 3

LFS/N0101:Maintain a healthy, safe and secure working environment in the life sciences facility	Mandatory	30	Common across 2-7 Levels
LFS/N0103: To ensure cleanliness in the work area	Mandatory	30	Common across 2-6 Levels

Please attach any document giving further detail about the structure of the qualification – eg a Curriculum or Qualification Pack.
Give details of the document here:

- Qualifications Pack is attached in Annexure 1

SECTION 1

ASSESSMENT

Name of assessment body:
If there will be more than one assessment body for this qualification, give details.

1. Manipal City & Guilds Pvt. Ltd, having its registered office at 4th Floor, above Total Superstore, Sy. No 12/5, Kaikondarahalli, Varthur Hobli, Sarjapur Main Road, Bangalore, Karnataka, PIN- 560034
2. Confederation of Indian Industry (CII), having its headquarters at The Mantosh Sodhi Centre, 23, Institutional Area, Lodi Road, New Delhi, PIN- 110003

Will the assessment body be responsible for RPL assessment?

Only One Given Below:

Confederation of Indian Industry (CII), having its headquarters at The Mantosh Sodhi Centre, 23, Institutional Area, Lodi Road, New Delhi, PIN- 110003

Give details of how RPL assessment for the qualification will be carried out and quality assured.

RPL arrangements and policies are under development.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

Assessment Agencies: An assessment 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

Assessment development: The assessment development is done with close monitoring and support of LSSSDC at every stage.
Steps for assessment development:

- Selection of assessment tool(s) depending on the assessment criteria prescribed in that QP.
- Developing blue print of the question paper, Viva, Demonstration, whatever are selected tools.
- 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.
- **SME:** An expert from industry is selected who is called “Subject Matter Expert”. This SME must have over 13-15 years of experience in the industry, on same job role.
- **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. The selection takes place as follows

- LSSSDC 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.
- Based on this, Assessment agency locates the right people from the Industry and LSSSDC approves them after screening (they are screened on basis of resume and interview).

- Once selected, the assessor is oriented by LSSSDC and Assessment agency 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, VTP credentials, mark sheet management.
  - Confidentiality management.
- Assessment agency signs the agreement letter with the Assessor.
- LSSSDC certifies the Assessor.

Assessment process:

- Assessment date is decided with common agreement of VTP and assessment agency.
- Assessment agency ensures the availability of required infrastructure, tools for the assessment.
- Assessor is provided with location details of the VTP. He contacts VTP a day prior to the assessment to ensure that all the aspects are well managed.
- The trainees are scheduled in such a way that an assessor shall not assess more than 20 candidates in a day.
- Assessor and a representative from Assessment agency are present on the day of assessment to manage the process at assessment location.
- They carry an identity card and letter from the council authorising to conduct the assessment.
- Assessor ensures authenticity of Trainee's identity by verifying the documents (any document issued by GOI, such as Ration card, Adhar Card, Driving Licence, Passport, election card etc)
- Assesor maintains the records of attendance, verified documents, Score sheets, answer sheets and whatever applicable.
- Assessor collects evidences of the assessment in best possible way (videos, pictures, voice recordings etc)
- Assessor maintains complete confidentiality of the score, compiles the data and document and sends it to assessment agency.
- The assessment agency after processing the results and putting them in standard format hands over to LSSSDC within 7 days of assessment.
- LSSSDC cross checks and validates the data and declares the result to VTP.
- Passed candidates are provided with certificate

Assessment tools: Assessment tools for a QP are decided on the basis of composition of knowledge and skill in that particular 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.

Written test:

Scope – Is used to test the knowledge component of the QP.
Tools – Pen and Paper in form of OMR sheet, 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.
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 marks gives the overall rating of the trainee.

Viva

Scope – Is used to test the knowledge and understanding and breadth of awareness about the subject.
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 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.

Practical Test
Scope – Is used to test primarily the Skill component of the QP. Trainee's expertise in handling and managing the tools and situation is tested.
Tools – Demonstration, role play.
Method – A situation is narrated or created in front of the trainee and he is asked to react to it. The selected situations are based on real situations. They are predefined and provided to assessor. Assessor is provided with spectrum of reactions to be expected from trainee. Based on these guidelines the assessor fills the score sheet.
Analysis –Practical tests are analysed on knowledge and skill component.

Please attach any documents giving further information about assessment and/or RPL.
Give details of the document(s) here:

- LSSSDC Protocol for Accreditation of Assessment Agencies and Assessment Guideline Ver1.00
- Sample of Assessors Guide

ASSESSMENT EVIDENCE

Assessable Outcomes	Assessment Criteria	Total Marks (800)	Out Of	Theory	Skills Practical
LFS/N0531: (To carry out washing, processing and drying of the glassware/plastic ware for experimentation)	PC1. washing and cleaning the glassware with different solutions and types of water to ensure complete cleaning and removing of dirt	100	10	5	5
	PC2. ensure glass and plastic ware used for experimentation to be scrupulously clean		10	5	5
	PC3. use deionized distilled water as the final rinse in the cleansing process		10	5	5
	PC4. sterilize contaminated laboratory ware before cleansing		10	5	5
	PC5. monitor proper operation and supply of the distilled and deionized water sources		10	5	5

	PC6. select detergent which is compatible with area water and leaves behind no undesirable residues on the cleansed laboratory ware and equipment		10	5	5
	PC7. check cleansed laboratory ware and equipment for acid / reagent residues		10	5	5
	PC8. inspect washed laboratory ware and equipment for cleanliness.		10	5	5
	PC9. code all laboratory ware and equipment to cleansing specifications required for laboratory studies.		10	5	5
	PC10. use autoclave for drying and sterilization of the glassware before further use.		10	5	5
	Total		**100**	**50**	**50**
LFS/ N0530 (To help the lab/QC Chemists/ Research Associates in performing the experiments and analysis)	PC1. to ensure the reagents, glassware, equipment is available at the right time.	100	10	5	5
	PC2. to assist in laboratory tests in order to produce reliable and precise data to support scientific investigations		10	5	5
	PC3. to prepare specimens and samples as per the guidelines and required for the experiment		10	5	5
	PC4. to set up and operate standard laboratory equipment, for example centrifuges, titrators, pipetting machines and ph meters		10	5	5
	PC5. to carry out routine tasks accurately and maintain strict adherence to sops		10	5	5
	PC6. to follow and ensure strict safety procedures and safety checks are followed		10	5	5

	PC7. keeping up to date with technical developments, especially those which can save time and improve reliability		10	5	5
	PC8. maintaining and repairing equipment and laboratory apparatus as a part of routine activities		10	5	5
	PC9. coordinating work in the laboratory to ensure efficient use is made of expensive pieces of equipment.		10	5	5
	PC10. ensuring the laboratory is well-stocked and resourced		10	5	5
	Total		**100**	**50**	**50**
LFS/N0532 (To carry out preparation of solution and reagents)	PC1. cataloguing recordings and making them available when requested (if the department houses audio visual resources)	100	10	5	5
	PC2. to ensure that all the quality manuals are readily available for reference		12	5	7
	PC3. to ensure that SOPs for each of the experiments is available		11	5	6
	PC4. to ensure document control by maintaining master log, effective archiving and constant updating of laboratory log.		10	5	5
	PC5. maintain various records sample log book, registers, quality control data, incident reports, results of internal and external audits etc.		10	5	5
	PC6. maintain instrument printouts of maintenance records		11	5	6
	PC7. maintain test specific reports		11	5	6
	PC8. ensure proper storing and archiving practices for all relevant documentation.		12	5	7

	PC9. carry out labeling of samples and reagents as per SOPs.		13	5	8
	Total		**100**	**45**	**55**
LFS/N0533 (To ensure appropriate measures are taken while opening of chemicals to be used in analysis)	PC1. display commitment to handle and use the chemical properly from initial receipt to ultimate disposal.	100	9	4	5
	PC2. new chemicals shall be obtained only if the supervisor has determined that the use of the new chemical is necessary		9	4	5
	PC3. carry out labeling and packaging of chemical containers in accordance with applicable regulations		9	4	5
	PC4. ensure all chemical containers are dated		9	4	5
	PC5. move the received chemicals to the designated storage area		9	4	5
	PC6. store large bottles of acids and other hazardous substances on a shelf that is no more than three feet above floor level		9	4	5
	PC7. acid-resistant trays should be placed under bottles of mineral acids		10	5	5
	PC8. ensure appropriate safety eyewear and other personal protective equipment to be used while transferring chemicals one must ensure containers are properly labeled and know what to do in the event of a release or spill		9	4	5
	PC9. while transferring chemicals one must ensure containers are properly labeled and know what to do in the event of a release or spill.		9	4	5
	PC10. wear appropriate Personal Protective Equipment (PPE)		9	4	5

	PC11. ensure incompatible chemicals are kept away from each other.		9	4	5
	Total		**100**	**45**	**55**
LFS/N0534 (To maintain records of lab usage, storage of chemicals, labels, date of opening and closing)	PC1. cataloguing recordings and making them available when requested (if the department houses audiovisual resources)		12	5	7
	PC2. to ensure that all the quality manuals are readily available for reference		10	5	5
	PC3. to ensure that SOPs for each of the experiments is available		12	5	7
	PC4. to ensure document control by maintaining master log, effective archiving and constant updating of laboratory log.		12	5	7
	PC5. maintain various records sample log book, registers, quality control data, incident reports, results of internal and external audits etc.		12	5	5
	PC6. maintain instrument printouts of maintenance records		10	5	7
	PC7. maintain test specific reports		12	5	7
	PC8. ensure proper storing and archiving practices for all relevant documentation.		10	5	5
	PC9. carry out labeling of samples and reagents as per SOPs.		10	5	5
	Total		**100**	**45**	**55**
LFS/N0535 (To reprocess the instruments before carrying out experiments)	PC1. to carry out manual cleaning		9	4	5
	PC2. to observe correct protocols for instrument cleaning		9	4	5
	PC3. carry out Ultrasonic cleaning		9	4	5
	PC4. use automatic washer for complex instruments		9	4	5

	PC5. to replace damaged instrument		9	4	5
	PC6. return any instrument with visible soil or residual debris for further cleaning		9	5	4
	PC7. perform Sterile packaging to maintain the sterility of processed instruments and allow for aseptic opening at point of use		9	4	5
	PC8. to perform steam sterilization for sterilizing instruments, trays, and cassettes		8	4	4
	PC9. to store sterile packages in a manner that reduces the potential for contamination		11	5	6
	PC10. to routinely verify sterility assurance of processed instruments		10	5	5
	PC11. to use physical, chemical and biological indicators for quality assurance		8	4	4
	Total		**100**	**47**	**53**
LFS/N0101 (Maintain a healthy, safe and secure working environment in the life sciences facility)	PC1. observe and comply with your company's current health, safety and security policies and procedures	100	10	5	5
	PC2. while carrying out work, use appropriate safety gears like head gear, masks, gloves and other accessories as mentioned in the guidelines		10	5	5
	PC3. report any identified breaches in health, safety, and security policies and procedures to the designated person		10	5	5
	PC4. responsible for maintaining discipline at the shop-floor area		10	5	5
	PC5. identify and correct any hazards that you can deal with safely,		10	5	5

	competently and within the limits of your authority				
	PC6. adhere and comply to storage and handling guidelines for hazardous material		10	5	5
	PC7. identify and recommend opportunities for improving health, safety, and security to the designated person		10	5	5
	PC8. complete any health, safety and security records legibly and accurately		10	4	6
	PC9. report any hazards that you are not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected		10	4	6
	PC10. follow your company's emergency procedures promptly, calmly, and efficiently		10	5	5
	Total		**100**	**48**	**52**
LFS/N0103 (To ensure cleanliness in the work area)	PC1. inspect the area while taking into account various surfaces	100	4	2	2
	PC2. identify the material requirements for cleaning the areas inspected, by considering risk, time, efficiency and type of stain		5	2	3
	PC3. ensure that the cleaning equipment is in proper working condition		5	2	3
	PC4. select the suitable alternatives for cleaning the areas in case the appropriate equipment and materials are not available and inform the appropriate person		4	2	2
	PC5. plan the sequence for cleaning the area to avoid re-soiling clean areas and surfaces		4	2	2
	PC6. inform the affected people about the cleaning activity		4	2	2

	PC7. display the appropriate signage for the work being conducted		4	2	2
	PC8. ensure that there is adequate ventilation for the work being carried out		5	2	3
	PC9. wear the personal protective equipment required for the cleaning method and materials being used		4	2	2
	PC10. use the correct cleaning method for the work area, type of soiling and surface		4	2	2
	PC11. deal with accidental damage, if any, caused while carrying out the work		4	2	2
	PC12. report to the appropriate person any difficulties in carrying out your work		4	2	2
	PC13. identify and report to the appropriate person any additional cleaning required that is outside one's responsibility or skill		4	2	2
	PC14. ensure that there is no oily substance on the floor to avoid slippage		4	2	2
	PC15. ensure that no scrap material is lying around		4	2	2
	PC16. maintain and store housekeeping equipment and supplies		4	2	2
	PC17. follow workplace procedures to deal with any accidental damage caused during the cleaning process		4	2	2
	PC18. ensure that, on completion of the work, the area is left clean and dry and meets requirements		4	2	2
	PC19. return the equipment, materials and personal protective equipment that were used to the right places making sure they are clean, safe and securely stored		5	2	3

	PC20. dispose the waste garnered from the activity in an appropriate manner		5	2	3
	PC21. dispose of used and un-used solutions according to manufacturer's instructions, and clean the equipment thoroughly		5	2	3
	PC22. maintain schedules and records for housekeeping duty		5	2	3
	Total		**100**	**46**	**54**

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed? While collecting data from the industry for development of the occupational map, we also took inputs on the list of unique roles and the roles to be prioritized, w.r.t. workforce volume and skilling needs. These inputs have been used for subsequent qualification packs development.
What is the estimated uptake of this qualification and what is the basis of this estimate? Skills Gap analysis Reports for industry demand and secondary research data is the basis, though these do not lend to accurate demand projection. The link to NSDC Human Resource & Skills Requirement in Life Sciences Sector is http://nsdcindia.org/sites/default/files/files/Pharmaceuticals.pdf • Feedback from industry for demand though again sample size may not lend to accurate figures • Training duration, and current and potential training capacity envisaged • An LMIS development initiative is being put in place to be more precise regarding the demand and supply
What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF? The NSDC list of Approved and Under-development QPs has been checked for overlap Quality team of NSDC has done the 2nd level check before QRC presentation The QP is under Industry validation and post completing the validation exercise, the QP will be resubmitted for QRC approval as per laid down protocol of NSDC.
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? Workshops with Industry Associations of Employers are part of continuous awareness drive and will be utilized as a channel to get a continual feedback from Industry The Qualification has been uploaded on SSC website for public with a request for feedback on qualification to be sent to an identified mail address SSC will be engaged with Training Providers and Authorised educational institutions, who are imparting trainings as per QP guidelines, to gather feedback in implementation Monitoring of candidate Assessment Result will be carried out Employer feedback will be sought post placement of trainee's batch A formal review is scheduled in two year time frame

Please attach any documents giving further information about any of the topics above.
Give details of the document(s) here:

- NSDC Human Resource & Skills Requirement in Life Sciences Sector is http://nsdcindia.org/sites/default/files/files/Pharmaceuticals.pdf

SECTION 3

SUMMARY EVIDENCE OF LEVEL

Summary of Direct Evidence:

Generic NOS is/are linked to the overall authority attached to the job role.

Lab Technician/ Assistant- Life SciencesLFS/ Q 0509					
Process Required	**Professional Knowledge**	**Professional Skills**	**Core Skills**	**Responsibility**	**Level**
The Job role requires individual to perform limited range of activities which are routine and predictable. For Example: Lab technician processes (washing/ cleaning/ sterilizing) the glassware / plastic-ware and maintenance of equipment (like centrifuges, pH meters etc) as per SoPs and manuals Helps in set up of experiment by ensuring the reagents, glassware and equipment are available at right place at right time and by preparing the solution and reagents Ensure safe handling and storage of chemicals as per	The Job role requires individual to use basic facts, process and principles. For example The Individual applies knowledge of life sciences manufacturing and GLP principles and basics, laboratory management and maintenance procedures while assisting in laboratory. -to wash and sterile the glass ware and in preparation of reagents and solutions, applies knowledge of chemical safety data, user guidelines, organizational SoPs, norms (like sample disposal, environment condition etc.) set	The Job role requires individual to recall and demonstrate practical skill, routine and repetitive in narrow range of application. For Example: Lab Technician is required to demonstrate the planning and organizing skills, attention to detail (critical thinking), analytical thinking and problem solving skills while he/she assist in laboratory management, equipment set up and solution preparation. To perform maintenance and upkeep of laboratory equipment he/she uses the analytical thinking, critical thinking, and problem solving	The Individual uses both written and oral communication with minimum required clarity, skills of basic arithmetic and algebraic principles and basic understanding of social and natural environment The Reading skills are used to read the SoPs, product specification and acceptance criteria and any our guideline document. Written and oral communication skills are used to report the logs and inventory status and required documentation in registers and log books as per	Individual works under close supervision and have some responsibility for own work within defined limit. For example: Helps in set up of experiment by ensuring the reagents, glassware and equipment are available at right place at right time and by preparing the solution and reagents Ensure safe handling and storage of chemicals as per SoPs and guidelines and maintain laboratory records like log books, inventory records, sample	Level 3

SoPs and guidelines and maintain laboratory records like log books, inventory records, sample labelling etc Observe and comply with organization's health, safety and security policies and procedures like hazard and breach reporting, evacuation and emergency procedures etc	by Good Laboratory Practices (GLP) - To document the laboratory records in log book and inventory registers applies knowledge of SoP and Good Documentation Practice (GDP). To report hazards and breaches applies knowledge of precaution and safety measures, types of health and safety hazards and breaches and organization SoPs for EHS. - To ensure safety applies knowledge of organization's emergency procedures, summoning medical assistance etc, knowledge company's SoPs for health, safety and security and individual's role and responsibilities in relation to those.	skills. To choose the right procedure in cleaning apparatus/ glassware uses analytical thinking and in absence of the cleaning material/ tool identifies the alternates by using problem solving skills.	SoPs. While performing all the activities Individual understand the life sciences manufacturing and GLP guidelines, is aware about regulatory (like FDA/MHRA etc) requirements and legislative requirement.	labelling etc Observe and comply with organization's health, safety and security policies and procedures like hazard and breach reporting, evacuation and emergency procedures etc	
Level 3	Level 3	Level 3	Level 3	Level 3	

OTHER EVIDENCE OF LEVEL [This need only be filled in where evidence other than primary outcomes was used to allocate a level] (**Optional)**

Summary of other evidence (if used):

1. Internship Monitoring report available at VTP for each candidate for internship period duly signed by Industry authorized person

SECTION 4

EVIDENCE OF RECOGNITION OR PROGRESSION

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?

Horizontal and vertical mobility options have been articulated while developing the standard. For Example:

After 3-4 years of Industry work experience as Lab Technician/ Assistant post qualifying the certification of Lab Technician- Life Sciences, candidate has an option to qualify for Store Chemist/ SupervisorRaw Material- Life Sciences Job role for a vertical progression.

Lab Technician– Life Sciences also has an option to qualify for Visual Inspector- Life Sciences / Store Assistant- Life Sciences as a lateral progression.

Please attach any documents giving further information about any of the topics above.
Give details of the document(s) here:
• Occupational Map and progression matrix