



TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

# Transnational Skill Standards

## Quality Assurance Chemist

REFERENCE ID: TOS/LFS/Q0302

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## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

### Mapping for Quality Assurance Chemist(LFS/Q0302) with UK NOS

Link to Indian Qualification Pack:

[http://www.nsdindia.org/sites/default/files/files/QP\\_Quality-Assurance-Chemist\\_v14.2.pdf](http://www.nsdindia.org/sites/default/files/files/QP_Quality-Assurance-Chemist_v14.2.pdf)

Link to UK NOS: <http://nos.ukces.org.uk/Pages/Search.aspx>

### How to Read this Document

This document has two sections - **Section I and Section II.**

**Section I:** Compares the NOS listing in the Indian QP –**Quality Assurance Chemist (LFS/Q0302)**with **UK Process Industries Operations and Life Sciences NOS.**

**Section II:** Compares the competencies described in each of the Indian NOS with those of UK.

The language of the compared competencies of the two countries differs. However, the competency pointers of the described competency can be mapped. Wherever the competency pointer maps it is reported as 'None' under the column 'Gap in Indian NOS'. Wherever the competency pointers do not map, it is identified as a gap and the corresponding UK competency is noted under the column 'Gap in Indian NOS'.

### Usage of Benchmarked Transnational Standards

There will be two types of users of these benchmarked standards. One type will be of those individuals who are already trained and are certified on the corresponding Indian QP. This set of individuals will have to undergo a bridge course comprising of the identified gaps only. Thereafter, they will be assessed under the aegis of a UK Awarding body through the Indian SSC on the competency portions acquired via the bridge course. All qualifying individuals will be awarded a co-branded certificate comprising of logo of Skill India, Indian SSC and UK Awarding Body.

Those individuals who wish to be certified afresh will have to undergo training on both the Indian QP and the gaps in the Indian NOS with regard to UK competencies. Thereafter, they will be assessed under the aegis of a UK Awarding body through the Indian SSC and they will obtain a co-branded certificate comprising of logo of Skill India, Indian SSC and UK Awarding Body.

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### **Section I:** NOS Mapping of Quality Assurance Chemist QP (LFS/Q0302) with UK Process Industries Operations and Life Sciences NOS

NOS Mapping: A Summary				
Indian NOS Code	Indian NOS	UK NOS Code	UK NOS	Remarks, if any
LFS/N0303	Perform Quality Checks	COGLS4	Assure quality processes and procedures for life sciences related work activities	One of UK NOS is covered in one Indian NOS
LFS /N0101	Maintain a healthy, safe and secure working environment in the life sciences facility	COGPI03.10	Emergency procedure in processing industries operations	Two of UK NOS are covered in one Indian NOS
		COGPI02.15	Identify and deal with hazards in the work environment in processing industries operations	
LFS/N0104	Coordinate with Supervisor and team members	COGLS2	Maintain effective and efficient working relationships in life sciences related work activities	One of UK NOS is covered in one Indian NOS

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### **Section II:** Compares the competencies in Indian NOS Perform Quality

Checks(LFS/N0303)with those of UK NOS Assure quality processes and procedures for life sciences related work activities(COGLS4).

NOS Mapping Descriptions			
<b>Indian QP Title</b>	Quality Control Chemist	<b>UK Qualification</b>	NA
<b>Indian QP Code</b>	LFS/Q1301	<b>UK Qualification Code</b>	NA
<b>Indian NOS Code</b>	LFS/N0303	<b>UK NOS Code</b>	COGLS2
<b>Indian NOS</b>	Perform Quality checks	<b>UK NOS</b>	Assure quality processes and procedures for life sciences related work activities
<b>Scope</b>	<p>Pre-production checks/Documentary activities</p> <ul style="list-style-type: none"> <li>● identify and determine appropriate quality monitoring arrangements for the processes and procedures of manufacturing, quality control, warehouse and engineering documents</li> <li>● self-Inspections</li> <li>● as per regulatory guidelines and standard operating procedures, monitor all documents and data control (issuance, retrieval,</li> </ul>	<b>Overview</b>	This standard identifies the competences you need to assure the quality of processes and procedures used for life science related work activities, in accordance with approved procedures. Assurance can occur during workplace activities or after they have occurred. You will be expected to identify and use relevant business and scientific or technical understanding, methods and skills to address workplace problems that are well defined but complex and non- routine. You will be expected to take responsibility for

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<p><b>Scope</b></p>	<p>destruction and archival) for all the process</p> <ul style="list-style-type: none"> <li>● monitor the validation and qualification activities of machines as per validation master plan for compliances with regulatory guidelines.</li> <li>● ensure qualification activities during installation of new equipment and other analytical instruments</li> </ul> <p>In-Process checks/activities</p> <ul style="list-style-type: none"> <li>● ensure in-process checks are conducted at relevant processing stages and have met the requisite acceptance criteria / specifications.</li> <li>● verify adherence to cleaning SoPs and cleanliness of equipment and area used for production to ensure there is no contamination of next product from the previous product traces</li> <li>● perform material verification to</li> </ul>		<p>overall courses of action.</p> <p>During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.</p>
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<p><b>Scope</b></p>	<p>check if the right material, in right quantity for the batch has been issued or not</p> <ul style="list-style-type: none"> <li>● check the quality management system (QMS) elements such as change control, incident management, CAPA management are adhered to on the shop floor</li> <li>● check if the manufacturing facility (area &amp; process) is meeting the basic GMP requirements (e.g. facility upkeep, labeling policy, environmental conditions, cross contamination guidelines, segregation of materials)</li> <li>● carry out investigations related to complaints, batch failures, Out of Specification (OOS) incidents and report monthly and year-to-date comparisons.</li> </ul> <p>Post-production checks/activities</p> <ul style="list-style-type: none"> <li>● monitor and ensure</li> </ul>	<p><b>Overview</b></p>	
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Scope	<p>review of batch manufacturing and packing documents</p> <ul style="list-style-type: none"> <li>● monitor adherence to various good manufacturing practices activities and laid down procedures in receipt, storage, testing, processing and dispatch of products</li> <li>● review batch manufacturing/batch processing, packaging and analytical records, equipment logs etc. before batch release present the results of the work done to the appropriate people, in accordance with departmental and organizational procedures</li> <li>● manage activities such as audits, regulatory agency inspections, or product recalls</li> <li>● communicate regulatory information to multiple departments and ensure that information is interpreted correctly develop and</li> </ul>	Overview	

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<b>Scope</b>	maintain standard operating procedures or local working practices	<b>Overview</b>	
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### Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<b>Perform quality checks: To be competent, the user/individual on the job must be able to-</b>	<b>Assure quality processes and procedures for life sciences related work activities: You must be able to-</b>	
PC1. formulate and implement regulatory policies and procedures	P1. ensure that your life sciences work related activity is carried out in accordance with workplace procedures	None
PC2. keep oneself abreast with the current knowledge of relevant regulations	P4. identify suitable quality assurance methods and techniques appropriate for the work being assured	None
PC3. train staff in regulatory policies or procedures		None
PC4. to plan and participate self-inspections for various departments on the site as per predefined schedules and coordinate with cross functional teams	P9. identify and determine appropriate quality monitoring arrangements for the processes and procedures	None
PC5. compile statistical data and writes narrative reports summarizing quality assurance findings, along with review of documents	P10. record the results and present this to appropriate people, in accordance with departmental and organisational procedures	None
PC6. assist in continuous improvement initiatives to enhance product quality, compliance, drive efficiencies and cost effectiveness of Quality Assurance team	P8. recommend improvement to the quality of the processes and procedures and/or the activities	None
PC7. carry out sampling activities for quality assurance audit across stages	P9. identify and determine appropriate quality monitoring arrangements for the processes and procedures	None
PC8. assess repetitive incidences of OOS and OOT. Prepare and evaluate the trend of OOS and OOT investigation periodically	P10. record the results and present this to appropriate people, in accordance with departmental and	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
	organisational procedures	
PC9. provide document support to regulatory departments for compilation of various regulatory documents, including verification of in-process quality check documentation	P10. record the results and present this to appropriate people, in accordance with departmental and organisational procedures	None
PC10. collaborate with the production/packaging teams for providing line clearance	P2. identify and agree the area of work that will be assured with the relevant people	None
PC11. support / assign personnel to support internal and external audit activities	P2. identify and agree the area of work that will be assured with the relevant people	None
PC12. provide requisite information, documents, clarifications to supervisors during actual audits	P10. record the results and present this to appropriate people, in accordance with departmental and organisational procedures	None
PC13. check storage and disposal of samples during and after analysis	P5. use safe practices and the appropriate personal protection equipment where the assurance of process and procedures activities will take place	None
		P3. establish clear and precise criteria for assuring the quality of processes and procedures for activities
		P6. ensure that the specified quality assurance processes and procedures are implemented correctly
		P7. assess accurately the required processes and procedures quality against actual execution

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA1. quality policy of the company	K14. the regulations and guidelines relevant to your area of responsibility	None
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA2. standard operating procedures of the production unit	K14. the regulations and guidelines relevant to your area of responsibility	None
KA3. policies and procedures for conducting/participating in audits	K14. the regulations and guidelines relevant to your area of responsibility	None
KA4. legal and regulatory frameworks relevant to the production work	K14. the regulations and guidelines relevant to your area of responsibility	None
KA5. quality assurance methods approved by the company	K14. the regulations and guidelines relevant to your area of responsibility	None
KA6. format of presenting the information captured during quality checks	K17. methods of recording and presenting quality assurance information	None
KA7. composition/requirements of the product manufactured	K16. the types of recommendation that could emerge from the quality assurance process	None
<b>Knowledge &amp; Understanding- Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB1. knowledge of pharmacopeia	K14. the regulations and guidelines relevant to your area of responsibility	None
KB2. good manufacturing practices, good laboratory practices and good documentation practices and ISO guidelines	K14. the regulations and guidelines relevant to your area of responsibility	None
KB3. packaging specifications for different products	K14. the regulations and guidelines relevant to your area of responsibility	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KB4. engineering skills for QA like concept for engineering, HVAC, AHU, water systems, compressed air, electricity, and facility requirements, documentation in various process like reporting defects/problem/ incidents /quality issues/test results	K6. the types of investigation initiated and used to review the effectiveness or appropriateness of methods, action and results	None
KB5. knowledge on Critical Quality Attributes (CQA), Critical Process Parameters (CPP) and Critical Process Controls(CPC) and acceptance criteria	K7. the quality criteria that could be used for different types processes and procedures	None
<b>Knowledge &amp; Understanding- Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB6. qualification & validation procedures like compilation of stability data and its verification, addressing the Quality impacting and non-impacting incidents, deviations, OOS, OOT, CAPA follow-up and closure, stability protocol certification of commercial and validation batches	K15. how to obtain and interpret information on regulations and guidelines	None
KB7. knowledge of instrument management and calibration procedures	K15. how to obtain and interpret information on regulations and guidelines	None
KB8. knowledge of QA procedures and schedules	K15. how to obtain and interpret information on regulations and guidelines	None
KB9. quality management systems and documentation activities like control, issuance, archiving and distribution of records/ reports/ filing, art works, packing standards, protocols, drug calculations, uploading and maintenance of batch documents in database and SAP, monitoring of	K15. how to obtain and interpret information on regulations and guidelines	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
documents and their controls, control and issuance of SOP/STP/ Protocols/work sheets/BMR/BPR and record of analysis, designing of training matrix		
<b>Knowledge &amp; Understanding- Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB10. fundamental Science in API and Formulation Production and Packaging including review skills in PAS/X activities, potency calculation for active materials, basics of Pharmaceutical Science and Chemistry inclusive of Organic Nomenclature System, Organic Reaction Mechanism, and Basic Analytical Chemistry fundamentals like including balancing chemical equations, chemical equilibria, acid and base chemistry, stoichiometric calculations, reduction and oxidation chemistry and interaction of light with matter	K15. how to obtain and interpret information on regulations and guidelines	None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA1. make legible entries online/offline	K17. methods of recording and presenting quality assurance information	None
SA2. write detailed reports for investigation	K17. methods of recording and presenting quality assurance information	None
SA3. pay attention to detail while recording production parameters	K17. methods of recording and presenting quality assurance information	None
SA4. use computer application, such as Microsoft Office	K17. methods of recording and presenting quality assurance	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
	information	
SA5. read important documents, reports and procedures accurately, including those pertaining to deviations, incidents etc.	K15. how to obtain and interpret information on regulations and guidelines	None
SA6. read and understand SOPs and company policies	K15. how to obtain and interpret information on regulations and guidelines	None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA7. interact with people to effectively gather information	K9. the lines of communication and responsibilities in your department, and the links with the rest of the organisation	None
SA8. listen effectively and orally communicate technical information accurately	K9. the lines of communication and responsibilities in your department, and the links with the rest of the organisation	None
SA9. build and maintain positive and effective relationships with colleagues and customers	K9. the lines of communication and responsibilities in your department, and the links with the rest of the organisation	None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB1. make decisions on a suitable course of action or response	K3. how to identify and assess the requirements of the life sciences work related activities being assured	None
SB2. plan work in an effective and balanced manner, as well as undertake regular trend analysis of the same	K3. how to identify and assess the requirements of the life sciences work related activities being assured	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
SB3. plan work assigned on a daily basis and provide estimates of time required for each piece of work	K3. how to identify and assess the requirements of the life sciences work related activities being assured	None
SB4. understand one's role and responsibilities and make submissions as per the agreed deadlines	K6. the types of investigation initiated and used to review the effectiveness or appropriateness of methods, action and results	None
SB5. work with functional, departmental boundaries to harness synergies and realize organizational vision	K1. why it is important that quality is maintained for life sciences products and services	None
SB6. seek clarification on problems from others	K10. the limits of your own authority and to whom you should report if you have problems that you cannot resolve	None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB7. use effective problem solving techniques depending on the rating and context of the problem	K10. the limits of your own authority and to whom you should report if you have problems that you cannot resolve	None
SB8. address issues with minimum or nil impact on product quality as well as reduced deviations	K16. the types of recommendation that could emerge from the quality assurance process	None
SB9. analyse data and activities to assess risks	K16. the types of recommendation that could emerge from the quality assurance process	None
SB10. pass on relevant information to others	K17. methods of recording and presenting quality assurance information	None
SB11. provide opinions on work in a detailed and constructive way	K12. who requires information on the quality assurance and the procedures for informing them	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
SB12. apply balanced judgments to different approaches	K6. the types of investigation initiated and used to review the effectiveness or appropriateness of methods, action and results	None
SB13. visualize the needed specifications and SLA while carrying out any QA activity and show zero tolerance for any deviation	K1. why it is important that quality is maintained for life sciences products and services	None
		K4. the health and safety requirements of the life sciences area in which you are carrying out the activities
		K5. the importance of correct identification, and any unique workplace coding system
		K8. the quality assurance methods that are available
		K11. who should be involved in the quality assurance process
<b>Professional Skills- Indian NOS:</b> The user/ individual on the job needs to know and understand how to:	<b>Knowledge Statements- UK NOS</b>	
		K13. how to determine the resources that are necessary to ensure that quality methods and procedures are applied



## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

**Section II (Continued):** Compares the competencies in Indian NOS Maintain a healthy, safe and secure working environment in the life sciences facility (LFS/N0101) with those of UK NOSEmergency procedure in processing industries operations(COGPIO3.10).

NOS Mapping Descriptions			
<b>Indian QP Title</b>	Quality Assurance Chemist	<b>UK Qualification</b>	NA
<b>Indian QP Code</b>	LFS/Q0302	<b>UK Qualification Code</b>	NA
<b>Indian NOS Code</b>	LFS/N0101	<b>UK NOS Code</b>	COGPIO3.10
<b>Indian NOS</b>	Maintain a healthy, safe and secure working environment in the life sciences facility	<b>UK NOS</b>	Emergency procedure in processing industries operations
<b>Scope</b>	<p>Ensuring healthy, safe and secure working environment:</p> <ul style="list-style-type: none"> <li>● self monitor and adhere to safety principles and standards</li> <li>● ensure behavioural safety by workmen to cGMP and applicable safety standards on the shop floor/ laboratory</li> <li>● report any identified breaches in health, safety, and security policies and procedures to the designated person</li> </ul> <p>Managing emergency procedures:</p> <ul style="list-style-type: none"> <li>● illness</li> <li>● accidents</li> <li>● fires</li> </ul>	<b>Overview</b>	<p>This unit addresses the competence required to comply with site/plant emergency procedures. This involves:</p> <ol style="list-style-type: none"> <li>1. Raising the alarm once an emergency has been identified</li> <li>2. Informing others</li> <li>3. Minimising the effect of an emergency</li> <li>4. Maintaining your own and others' safety while working</li> </ol> <p>This unit deals with the following:</p> <ol style="list-style-type: none"> <li>1. Raise the alarm on discovering an emergency</li> <li>2. Minimise the effect of an emergency</li> </ol>

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<b>Scope</b>	<ul style="list-style-type: none"> <li>● other reasons to evacuate the premises</li> <li>● breaches of security</li> </ul>	<b>Overview</b>	
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### Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<b>Maintain a healthy, safe and secure working environment in the life sciences facility: To be competent, the user/individual on the job must be able to-</b>	<b>Emergency procedure in processing industries operations: You must be able to-</b>	
PC1. observe and comply with the company's current health, safety and security policies and procedures		None
PC2. while carrying out work, use appropriate safety gears like head gear, masks, gloves and other accessories as mentioned in the guidelines		None
PC3. report any identified breaches in health, safety, and security policies and procedures to the designated person		None
PC4. responsible for maintaining discipline at the shop-floor/ production area		None
PC5. identify and correct any hazards that the individual can deal with safely, competently and within the limits of their authority		None
PC6. adhere and comply to storage and handling guidelines for hazardous material		None
PC7. identify and recommend opportunities for improving health, safety, and security to the designated person		None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC8. complete any health, safety and security activities like safety drills and prepare records legibly and accurately		None
PC9. report any hazards that the individual is not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected	P9. assess the risk to yourself and others of trying to contain the emergency	None
PC10. follow the company's emergency procedures promptly, calmly, and efficiently		None
		P1. activate the appropriate alarm on discovering the emergency
		P2. take action appropriate to the emergency
		P3. check the location and type of the emergency
		P4. provide accurate details on nature and location of the emergency to emergency services
		P5. if necessary, alert other people to the emergency
		P6. try to ensure that people do not panic
		P7. communicate with relevant people
		P8. ensure any action is taken promptly
		P10. if the risk is not increased take appropriate action by following the correct procedure

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		P11. minimise the effect on the environment by using appropriate techniques
		P12. comfort and reassure any casualties in the emergency
		P13. give a full and accurate report of the emergency
		P14. work safely at all times
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA1. legislative requirements and company's procedures for health, safety and security and individual's role and responsibilities in relation to this		None
KA2. what is meant by a hazard, including the different types of health and safety hazards that can be found in the workplace		None
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA3. how and when to report hazards		None
KA4. limits of individual responsibility for dealing with hazards		None
KA5. the organization's emergency procedures for different emergency situations and the importance of following these		None
KA6. the importance of maintaining high standards of health, safety and security		None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KA7. implications that any non-compliance with health, safety and security may have on individuals and the organization		None
KA8. health hazards and its implications if any in the production process		None
<b>Knowledge &amp; Understanding- Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB1. different types of breaches in health, safety and security and how and when to report these		None
KB2. evacuation procedures for workers and visitors	K19. what your personal responsibilities are with regard to health, safety and environment	None
KB3. how to summon medical assistance and the emergency services, where necessary	K18. why it is important to give a full and accurate report of the incident	None
<b>Knowledge &amp; Understanding- Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB4. how to use the health, safety and accident reporting procedures and the importance of these	K18. why it is important to give a full and accurate report of the incident	None
KB5. different types of occupational health hazards		None
KB6. knowledge of chemical substances, their characteristics and required precaution and safety measures		None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA1. complete accurate, well written work with attention to detail	K6. methods of communication to use	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
SA2. read instructions, guidelines, procedures, rules and service level agreements		None
SA3. listen effectively and orally communicate information accurately	K3. how to provide clear and accurate details on the nature and location of the emergency	None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB1. make decisions on suitable courses of action	K3. how to provide clear and accurate details on the nature and location of the emergency	None
SB2. plan and organize work to meet health, safety and security requirements		None
SB3. apply problem solving approaches in different situations	K19. what your personal responsibilities are with regard to health, safety and environment	None
SB4. analyse data and activities		None
SB5. apply balanced judgments to different situations	K3. how to provide clear and accurate details on the nature and location of the emergency	None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
		K1. the methods of raising the alarm
		K2. why it is important to check on the location of the emergency
		K4. when and how to alert other personnel to the emergency
		K5. why it is important to communicate with relevant others

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		K7. why it is important to try to follow safe working procedures
		K8. the importance of taking the appropriate action
		K9. the importance of taking immediate action
		K10. the consequences of not taking immediate action
		K11. ways to minimise panic
		K12. why it is important to contain the emergency
		K13. how to assess the risk of containing the emergency
		K14. methods of containing emergencies
		K15. why it is important to assess the risk to the environment
		K16. how to minimise environmental damage
		K17. how to comfort and reassure casualties

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**Section II (Continued):** Compares the competencies in Indian NOS Maintain a healthy, safe and secure working environment in the life sciences facility (LFS/N0101) with those of UK NOS Identify and deal with hazards in the work environment in processing industries operations (COGPI02.15).

NOS Mapping Descriptions			
<b>Indian QP Title</b>	Quality Assurance Chemist	<b>UK Qualification</b>	NA
<b>Indian QP Code</b>	LFS/Q0302	<b>UK Qualification Code</b>	NA
<b>Indian NOS Code</b>	LFS/N0101	<b>UK NOS Code</b>	COGPI02.15
<b>Indian NOS</b>	Maintain a healthy, safe and secure working environment in the life sciences facility	<b>UK NOS</b>	Identify and deal with hazards in the work environment in processing industries operations
<b>Scope</b>	<p>Ensuring healthy, safe and secure working environment:</p> <ul style="list-style-type: none"> <li>self monitor and adhere to safety principles and standards</li> <li>ensure behavioural safety by workmen to cGMP and applicable safety standards on the shop floor/ laboratory</li> <li>report any identified breaches in health, safety, and security policies and procedures to the designated person</li> </ul> <p>Managing emergency procedures:</p> <ul style="list-style-type: none"> <li>illness</li> <li>accidents</li> </ul>	<b>Overview</b>	<p>This unit addresses the competence needed to identify hazards in the workplace and take appropriate action to minimise the risk from them. This could involve:</p> <ol style="list-style-type: none"> <li>Identifying the hazards present</li> <li>Assessing the risks</li> <li>Identifying controls and precautions necessary to undertake the work safely</li> </ol> <p>This unit deals with the following:</p> <ol style="list-style-type: none"> <li>Identify hazards in the workplace</li> </ol>



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<b>Scope</b>	<ul style="list-style-type: none"> <li>● fires</li> <li>● other reasons to evacuate the premises</li> <li>● breaches of security</li> </ul>	<b>Overview</b>	
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### Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<b>Maintain a healthy, safe and secure working environment in the life sciences facility: To be competent, the user/individual on the job must be able to-</b>	<b>Identify and deal with hazards in the work environment in processing industries operations: You must be able to-</b>	
PC1. observe and comply with the company's current health, safety and security policies and procedures	P1. work safely at all times, complying with health and safety and other relevant regulations and guidelines	None
PC2. while carrying out work, use appropriate safety gears like head gear, masks, gloves and other accessories as mentioned in the guidelines	P1. work safely at all times, complying with health and safety and other relevant regulations and guidelines	None
PC3. report any identified breaches in health, safety, and security policies and procedures to the designated person	P5. report any hazards identified and any actions you have taken	None
PC4. responsible for maintaining discipline at the shop-floor/ production area	P1. work safely at all times, complying with health and safety and other relevant regulations and guidelines	None
PC5. identify and correct any hazards that the individual can deal with safely, competently and within the limits of their authority	P4. identify any potential hazards and take appropriate action to minimise the risk from them	None
PC6. adhere and comply to storage and handling guidelines for hazardous material	P1. work safely at all times, complying with health and safety and other relevant regulations and guidelines	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC7. identify and recommend opportunities for improving health, safety, and security to the designated person	P3. check for hazards in the workplace in line with agreed and approved procedures	None
PC8. complete any health, safety and security activities like safety drills and prepare records legibly and accurately	P1. work safely at all times, complying with health and safety and other relevant regulations and guidelines	None
PC9. report any hazards that the individual is not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected	P4. identify any potential hazards and take appropriate action to minimise the risk from them	None
PC10. follow the company's emergency procedures promptly, calmly, and efficiently		None
		P2. recognise industrial processes, tools, equipment and materials that have the potential to cause harm
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA1. legislative requirements and company's procedures for health, safety and security and individual's role and responsibilities in relation to this	K1. health and safety legislation, regulations and safe working practices and procedures you need to know and be aware of relevant health and safety legislation, and what your responsibilities are in respect of that legislation. regulations, safe working practices, and workplace procedures that contain specific instructions, for you to comply with, in your working environment.	None
KA2. what is meant by a hazard, including the different types of health and safety hazards that	K2. hazard spotting and safety assessment methods and techniques you need to know	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
can be found in the workplace	the hazard spotting and safety assessment methods and techniques that can be used in your working environment.	
KA3. how and when to report hazards	K2. hazard spotting and safety assessment methods and techniques you need to know the hazard spotting and safety assessment methods and techniques that can be used in your working environment.	None
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA4. limits of individual responsibility for dealing with hazards	K1. health and safety legislation, regulations and safe working practices and procedures you need to know and be aware of relevant health and safety legislation, and what your responsibilities are in respect of that legislation. regulations, safe working practices, and workplace procedures that contain specific instructions, for you to comply with, in your working environment.	None
KA5. the organization's emergency procedures for different emergency situations and the importance of following these	K1. health and safety legislation, regulations and safe working practices and procedures you need to know and be aware of relevant health and safety legislation, and what your responsibilities are in respect of that legislation. regulations, safe working practices, and workplace procedures that contain specific instructions, for you to comply with, in your working environment.	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KA6. the importance of maintaining high standards of health, safety and security	K7. reporting lines and procedures you need to know the reporting lines and procedures within your working environment.	None
KA7. implications that any non-compliance with health, safety and security may have on individuals and the organization	K6. safety reporting procedures and documentation you need to know the documentation to use, and the safety reporting procedures to use in you working environment.	None
KA8. health hazards and its implications if any in the production process	K3. types of hazards involving processes, tools, equipment and materials you need to know what types of hazards may arise within your working environment, from the processes, tools, equipment and materials that you use.	None
<b>Knowledge &amp; Understanding - Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB1. different types of breaches in health, safety and security and how and when to report these	K3. types of hazards involving processes, tools, equipment and materials you need to know what types of hazards may arise within your working environment, from the processes, tools, equipment and materials that you use.	None
KB2. evacuation procedures for workers and visitors		None
<b>Knowledge &amp; Understanding - Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB3. how to summon medical assistance and the emergency services, where necessary		None
KB4. how to use the health, safety and accident reporting procedures and the importance of these	K6. safety reporting procedures and documentation you need to know the documentation to use, and the safety reporting	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
	procedures to use in you working environment.	
KB5. different types of occupational health hazards	K4. effects of hazards on persons, property and the environment you need to know what the effects of hazards are on persons, property and the environment.	None
KB6. knowledge of chemical substances, their characteristics and required precaution and safety measures	K4. effects of hazards on persons, property and the environment you need to know what the effects of hazards are on persons, property and the environment.	None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA1. complete accurate, well written work with attention to detail		None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA2. read instructions, guidelines, procedures, rules and service level agreements	K1. health and safety legislation, regulations and safe working practices and procedures you need to know and be aware of relevant health and safety legislation, and what your responsibilities are in respect of that legislation. regulations, safe working practices, and workplace procedures that contain specific instructions, for you to comply with, in your	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
	working environment.	
SA3. listen effectively and orally communicate information accurately		None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB1. make decisions on suitable courses of action		None
SB2. plan and organize work to meet health, safety and security requirements	K1. health and safety legislation, regulations and safe working practices and procedures you need to know and be aware of relevant health and safety legislation, and what your responsibilities are in respect of that legislation. regulations, safe working practices, and workplace procedures that contain specific instructions, for you to comply with, in your working environment.	None
SB3. apply problem solving approaches in different situations		None
SB4. analyse data and activities		None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB5. apply balanced judgments to different situations		None
		K2. hazard spotting and safety assessment methods and techniques you need to know

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		the hazard spotting and safety assessment methods and techniques that can be used in your working environment.

**Section II (Continued):** Compares the competencies in Indian NOS Coordinate with Supervisor and team members(LFS/N0104) with those of UK NOS Maintain effective and efficient working relationships in life sciences related work activities (COGLS2).

NOS Mapping Descriptions			
<b>Indian QP Title</b>	Quality Assurance Chemist	<b>UK Qualification</b>	NA
<b>Indian QP Code</b>	LFS/Q0302	<b>UK Qualification Code</b>	NA
<b>Indian NOS Code</b>	LFS/N0104	<b>UK NOS Code</b>	COGLS2
<b>Indian NOS</b>	Coordinate with Supervisor and team members	<b>UK NOS</b>	Maintain effective and efficient working relationships in life sciences related work activities
<b>Scope</b>	<p>This unit/task covers the following: Coordinate with supervisor</p> <ul style="list-style-type: none"> <li>● receive work instructions from reporting supervisor</li> <li>● communicate to reporting supervisor about process-flow improvements, production defects received from previous process, repairs and maintenance of equipment as</li> </ul>	<b>Overview</b>	<p>This standard covers the competences you need to work effectively and effectively in life science related work activities, in accordance with approved procedures and practices. You will be required to demonstrate establishing and maintaining relationships, how you deal with others. How you deal with disagreements. How you meet</p>

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

<p><b>Scope</b></p>	<p>required</p> <ul style="list-style-type: none"> <li>● provide support to supervisor for carrying out investigations related to complaints, batch failures, OOS/ OOT, incidents etc.</li> <li>● communicate any potential hazards or expected process disruptions</li> <li>● provide requisite information, documents, clarifications to supervisor during actual audits</li> <li>● handover completed work to supervisor</li> </ul> <p>Coordinate with team members</p> <ul style="list-style-type: none"> <li>● work as a team with colleagues and share work as per their or own work load and skills</li> <li>● interview team members and colleagues to collect data to be recorded in log books and batch documents</li> <li>● support/assign personnel/team members to support internal and external audit activities as per instructions of</li> </ul>		<p>organizational standards for behaviour.</p> <p>During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU. The activity is likely to be undertaken by someone whose work role carries out life science related work activities. This could include individuals working in hospitals, scientific laboratories, schools and universities.</p>
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## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

<b>Scope</b>	superiors/supervisor <ul style="list-style-type: none"> <li>work with colleagues of other departments</li> <li>communicate and discuss work flow related difficulties in order to find solutions with mutual agreement</li> <li>provide documented shift handovers to the next person in the shift</li> </ul>	<b>Overview</b>	
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### Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<b>Coordinate with Supervisor and team members: To be competent, the user/individual on the job must be able to-</b>	<b>Maintain effective and efficient working relationships in life sciences related work activities: You must be able to-</b>	
PC1. understand the work output requirements	P3. maintain communication with others, to ensure that they are kept informed about any work plans or activities which may affect them	None
PC2. comply with company policy and rule	P2. meet organisational standards for appearance and behaviour	None
PC3. proactively inform supervisor on issues requiring intervention	P3. maintain communication with others, to ensure that they are kept informed about any work plans or activities which may affect them	None
PC4. deliver quality work on time and report any anticipated reasons for delays	P3. maintain communication with others, to ensure that they are kept informed about any work plans or activities which may affect them	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC5. put team over individual goals	P3. maintain communication with others, to ensure that they are kept informed about any work plans or activities which may affect them	None
PC6. be able to resolve conflicts	P5. deal with disagreements in an amicable and constructive way, so that good relationships are maintained	None
PC7. learn how to multi-task relevant activities	P3. maintain communication with others, to ensure that they are kept informed about any work plans or activities which may affect them	None
PC8. impart training to team members/cross-function team members		None
		P1. establish and maintain effective working relationships within the life sciences environment
		P4. be aware of the limits of your skills, and seek assistance from others in a polite and courteous way without causing undue disruption to normal work activities
		P6. review your personal performance and development with the appropriate people at the agreed intervals
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	
KA1. knowledge of process management	K5. the lines of communication and responsibilities in your department and their links with the rest of the organisation	None
<b>Knowledge &amp; Understanding- Indian NOS: Organisational Context</b>	<b>Knowledge Statements- UK NOS</b>	

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KA2. the correct method for carrying out corrective actions outlined for each problem	K12. the procedures for dealing with disagreements within the workplace	None
KA3. escalation matrix for reporting identified issues	K12. the procedures for dealing with disagreements within the workplace	None
KA4. implications of not adhering to quality control procedures (pertaining to call audits by quality analysts for the executives)	K3. how your life sciences related work activities affect others within organisation and the community	None
KA5. company's tie-ups with technical bodies	K1. why it's important to understand and keep up with the strategic direction of the life sciences agenda across the UK and globally and how this will influence the organisation	None
<b>Knowledge &amp; Understanding - Indian NOS: Technical Knowledge</b>	<b>Knowledge Statements- UK NOS</b>	
KB1. domain knowledge pertaining to life sciences industry	K1. why it's important to understand and keep up with the strategic direction of the life sciences agenda across the UK and globally and how this will influence the organisation	None
KB2. benefits of the product with respect to similar products from other companies	K1. why it's important to understand and keep up with the strategic direction of the life sciences agenda across the UK and globally and how this will influence the organisation	None
KB3. application of basic sciences (chemistry), mathematics	K1. why it's important to understand and keep up with the strategic direction of the life sciences agenda across the UK and globally and how this will influence the organisation	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KB4. commercial awareness of pharmaceutical products and overall healthcare sector	K1. why it's important to understand and keep up with the strategic direction of the life sciences agenda across the UK and globally and how this will influence the organisation	None
<b>Core Skills/ Generic Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SA1. report/observation writing skills	K4. the reasons why effective communication is important and the methods used for communicating effectively	None
SA2. read notes/comments from the supervisor	K4. the reasons why effective communication is important and the methods used for communicating effectively	None
SA3. read job sheets and interpret technical details mentioned in the jobsheet	K4. the reasons why effective communication is important and the methods used for communicating effectively	None
<b>Professional Skills- Indian NOS: The user/ individual on the job needs to know and understand how to:</b>	<b>Knowledge Statements- UK NOS</b>	
SB1. spot and communicate potential areas of disruptions to work process and report the same	K5. the lines of communication and responsibilities in your department and their links with the rest of the organisation	None
K5. the lines of communication and responsibilities in your department and their links with the rest of the organisation	None	
SB3. improve work processes by interacting with others and adopting best practices	K4. the reasons why effective communication is important and the methods used for communicating effectively	None
SB4. spot process disruptions and delays and report and communicate with solutions	K5. the lines of communication and responsibilities in your department and their links with	None

## TRANSNATIONAL SKILL STANDARDS FOR LIFE SCIENCES INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
	the rest of the organisation	
		K2. how to develop internal and external networks within the life sciences community for the area you are working in
		K6. the reasons why good working relationships are important
		K7. how to create and maintain good working relationships
<b>Professional Skills- Indian NOS:</b> The user/ individual on the job needs to know and understand how to:	<b>Knowledge Statements- UK NOS</b>	
		K8. the methods of working effectively with others
		K9. the limits of your own authority and to whom you should report if you have problems that you cannot resolve
		K10. the problems that can affect relationships
		K11. how to give and receive feedback
		K13. the departmental performance review process, and your role in this

**\*General Note:** In the LSSSDC NOS, Range statement is not separated out. It is integrated holistically into the PCs and organizational context knowledge and technical knowledge within the QPs.