





#### QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR LIFE SCIENCES INDUSTRY

## What are Occupational Standards (OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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#### Contents

T.			
Till line	1.	Introduction and Contacts	P.1
Į	2.	Qualifications Pack	.P.2
Į	3.	Glossary of Key Terms	.P.4
1	4.	NOS Units	.P.6
STATE OF	5.	Annexure: Nomenclature for QP & OS	.P.16
	6.	Assessment Criteria	P.21

#### Introduction

### Qualifications Pack-Data Entry Operator /Documentation Officer

**SECTOR:** LIFE SCIENCES

SUB-SECTOR: PHARMACEUTICAL, BIO-PHARMACEUTICAL, CONTRACT RESEARCH

**OCCUPATION: RESEARCH AND DEVELOPMENT** 

**REFERENCE ID:** LFS/Q0510

**ALIGNED TO:** NCO-2004/NIL

**Data Entry Operator**, also known as Documentation Officer, undertakes entry, updation and maintenance of patient, drug and test result data on computer systems and in archives.

**Brief Job Description:** Data Entry Operator is responsible for receiving the source document from multiple teams, entering the data into computer systems, verifying data and completing the mandated forms associated with the data processing procedure.

**Personal Attributes:** The individual should have good reading and writing skills and needs to be adept at working on computer applications. Attention to detail is a key requirement







Qualifications Pack Code	LFS/Q0510		
Job Role	Data Entry Operator/Documentation Officer		
Credits(NSQF)	TBD	Version number	1.0
Industry	Life Sciences	Drafted on	15/01/15
Sub-sector	Pharmaceutical, Bio- Pharmaceutical, Contract Research	Last reviewed on	01/08/16
Occupation	Research and Development	Next review date	01/08/19
NSQC Clearance on	20/07/2015		

Job Role	Data Entry Operator/Documentation Officer		
Role Description	Responsible for entry, updation and maintenance of patient, drug and test result data on computer systems and in archives		
NSQF level	4		
Minimum Educational Qualifications	Diploma in Computer Science / Diploma in Computer Application/ Any Graduate/ B.Sc. (Preferred)		
Maximum Educational Qualifications	B. Tech in Computer Science		
Training (Suggested but not mandatory)  Typing, Computer Application, clinical trial application Part 11, clinical research terminology / therapeutic s matter, On the job training			
Minimum Job Entry Age	18 Years		
Experience	-		
Applicable National Occupational Standards (NOS)	Compulsory  1 LFS/N0535: Enter, update and maintain R&D data in the system  2 LFS/N0536: Maintain associated data entry terminals  3 LFS/N0304: Coordinate with Supervisor and colleagues within and outside the department		









Optional N.A.







Performanc	e Criteria	As described in the relevant NOS units







Keywords /Terms	Description
Core Skills/Generic	Core Skills or Generic Skills are a group of skills that are key to learning
Skills	and working in today's world. These skills are typically needed in any
	work environment. In the context of the NOS, these include
	communication related skills that are applicable to most job roles.
Description	Description gives a short summary of the unit content. This would be
	helpful to anyone searching on a database to verify that this is the
	appropriate NOS they are looking for.
Function	Function is an activity necessary for achieving the key purpose of the
	sector, occupation, or area of work, which can be carried out by a person
	or a group of persons. Functions are identified through functional
	analysis and form the basis of NOS.
Job role	Job role defines a unique set of functions that together form a unique
	employment opportunity in an organisation.
Knowledge and	Knowledge and Understanding are statements which together specify the
Understanding	technical, generic, professional and organisational specific knowledge
	that an individual needs in order to perform to the required standard.
National Occupational	NOS are Occupational Standards which apply uniquely in the Indian
Standards (NOS)	context.
Occupation	Occupation is a set of job roles, which perform similar/related set of
	functions in an industry.
Organisational Context	Organisational Context includes the way the organisation is structured
	and how it operates, including the extent of operative knowledge
	managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard
	of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the
	educational, training and other criteria required to perform a job role. A
	Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack	Qualifications Pack Code is a unique reference code that identifies a
Code	qualifications pack.
Scope	Scope is the set of statements specifying the range of variables that an
	individual may have to deal with in carrying out the function which have
	a critical impact on the quality of performance required.
Sector	Sector is a conglomeration of different business operations having similar
	businesses and interests. It may also be defined as a distinct subset of the
	economy whose components share similar characteristics and interests.







Sub-Sector	Sub-sector is derived from a further breakdown based on the
	characteristics and interests of its components.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the
	objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish
	specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for an NOS unit, which can be denoted with an 'N'.
Unit Title	Unit Title gives a clear overall statement about what the incumbent
	should be able to do.
Keywords /Terms	should be able to do.  Description
Keywords /Terms NOS	
	Description
NOS	Description  National Occupational Standard(s)
NOS NSQF	Description  National Occupational Standard(s)  National Skill Qualifications Framework









# National Occupational Standard

#### **Overview**

This Occupational Standard describes the knowledge, understanding and skills required for a Data Entry Operator for entering, updating and maintaining R&D-related data in the systems.









LFS/N0535: Enter, update and maintain R&D data in the system				
Unit Code	LFS/N0535			
Unit Title (Task)	Enter, update and maintain R&D data in the system			
Description	This NOS unit is about the Data Entry Operator for entering, updating and maintaining R&D-related data in the systems			
Scope	This unit / task covers the following:  • Enter, update and maintain data			
Performance Criteria (F	PC) w.r.t. the Scope			
Element	Performance Criteria			
Enter, update and maintain data	PC1. prioritize service requests according to organizational guidelines PC2. fill and process mandated forms for receiving, processing, or tracking data PC3. enter data from source documents (such as patient report, test report etc.) or case report forms into computer application following standard sequence and coding protocols PC4. scan source documents in accordance with specific instructions PC5. verify data entered with source documents, checks for compliance with composition codes and style rules and corrects all typographical errors and missing or repeated data as per the source document only PC6. maintain files of source documents or other information related to data entered PC7. investigate and confirm data that is unclear before entering PC8. generate reports of data entry, store completed work in designated locations and perform backup operations PC9. update database information to reflect most current source information, such as patient profiles PC10. assist in the filing and storage of security and back up data files PC11. respond to requests for information and access relevant files			
Knowledge and Unders				
A. Organisational Context (Knowledge of the Company/ Organisation and its processes)	The user/individual on the job needs to know and understand:  KA1. the data management applications/tools used by the company KA2. organizational coding system KA3. data entry protocol KA4. data integrity and security policies of the company KA5. escalation matrix for reporting identified issues KA6. approved methods for carrying document control and archiving			
B. Technical Knowledge	The user/individual on the job needs to know and understand:			









LFS/N0535: Enter, upd	ate and maintain R&D data in the system		
	KB1. basic understanding of life sciences terminology		
	KB2. importance of compliance with company protocols while carrying out research		
	KB3. understand computer and its terminology		
	KB4. work on different software needed for report writing including MS office suit or		
	open source office		
	KB5. undertake basic and advance workstation configuration, maintenance,		
	networking as well as trouble shooting		
	KB6. guidelines as per 21 CFR Part 11		
	KB7. basic therapeutic subject matter; and clinical research and medical terminology		
Skills (S)			
A. Core Skills/	Writing skills		
Generic Skills	The user/ individual on the job needs to know and understand how to:		
	CA1 officiently enter data into computer applications		
	SA1. efficiently enter data into computer applications		
	SA2. prepare legible reports / fill mandates data processing forms		
	Reading skills		
	The user/individual on the job needs to know and understand how to:		
	SA3. read and understand manuals, SOPs, instructions, memos, reports, job cards		
	etc.		
	SA4. read the data captured in source documents		
	SA5. Read and interpret patient information and records		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	The decignation the job needs to know and understand now to.		
	SA6. communicate effectively with the team members and supervisors		
	SA7. maintain confidentiality of information		
B. Professional Skills	Analytical Skills		
	The user/individual on the job needs to know and understand how to:		
	SB1. use computer applications		
	SB2. apply basic logic to identify data errors		
	SB3. pay attention to details		
	Plan and Organise		
	The user/individual on the job needs to know and understand how to:		
	SB4. plan assigned tasks within timeline and as per priority order specified		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB5. identify process improvements		
	Problem solving		









The user/individual on the job needs to know and understand how to:
SB6. reach out to supervisor for problems faced in assigned tasks
Analytical Thinking
NA
Customer Centricity
NA

#### **NOS Version Control**

NOS Code	LFS/N0535		
Credits(NSQF)	TBD	Version number	1.0
Industry	Life Sciences	Drafted on	15/12/14
Industry Sub-sector	Pharmaceutical, Bio Pharmaceutical and Contract Research	Last reviewed on	01/08/16
Occupation	R&D	Next review date	01/08/19









# National Occupational Standard



#### **Overview**

This Occupational Standard describes the knowledge, understanding and skills required for a Data Entry Operator to maintain and manage the data entry systems being worked on.









Unit Code	1.70/1/2706				
	LFS/N0536				
Unit Title (Task)	Maintain associated data entry terminals				
Description Scope	This NOS unit is about the Data Entry Operator to maintaining and managing the data entry systems he/she is working on.  This unit / task covers the following:				
Scope	Basic data entry terminal/system maintenance				
Performance Criteria (I	erformance Criteria (PC) w.r.t. the Scope				
Element	Performance Criteria				
Basic data entry terminal/system	To be competent, the user/individual on the job must be able to:				
maintenance	PC1. maintain logbooks or records for data entry job runs on the terminal				
	PC2. operate the terminal as per the defined organization procedures				
	PC3. be attentive for error lights and indicators and highlight the same to the concerned authority				
	PC4. correctly load files onto storage media of the system				
	PC5. check for network and servers functioning prior to job commencement				
	PC6. clear the terminal surrounding at the end of the jobs				
	PC7. notify the appropriate authority of malfunctions				
Knowledge and Unders	standing (K)				
B. Organisational Context	The user/individual on the job needs to know and understand:				
(Knowledge of the	KA1. the data management applications/tools used by the company				
Company/ Organisation and	KA2. data entry protocol KA3. data integrity and security policies of the company				
its processes)	KA4. escalation matrix for reporting identified issues				
its processes/	KA4. Cscalation matrix for reporting identified issues				
B. Technical Knowledge	The user/individual on the job needs to know and understand:				
	KB1. importance of compliance with company protocols				
	KB2. computer terminals and its terminology  KB3. undertake basic and advance workstation configuration, maintenance,				
	networking as well as trouble shooting				
Skills (S)					
A. Core Skills/	Writing Skills				
Generic Skills	The user/ individual on the job needs to know and understand how to:				
	SA1. efficiently enter data into computer applications SA2. prepare legible reports / fill mandates data processing forms				









Reading Skills  The user/individual on the job needs to know and understand how to:  SA3. read and understand manuals, SOPs, health and safety instructions, memos, reports, job cards etc.  SA4. read the data captured in source documents SA5. Read and interpret patient records  Oral Communication (Listening and Speaking skills)  The user/individual on the job needs to know and understand how to:  SA6. communicate effectively to share information SA7. listen attentively to gather information SA7. listen attentively to gather information  The user/individual on the job needs to know and understand how to:  SB1. use computer terminals SB2. use computer terminals SB2. use computer applications SB3. apply basic logic to identify data errors SB4. pay attention to details  Critical Thinking  The user/individual on the job needs to know and understand how to:  SB5. Identify and resolve process improvements  Problem Solving  The user/individual on the job needs to know and understand how to:  SB6. reach out to supervisor for problems faced in assigned tasks  Decision Making NA Plan and Organize NA	LF3/190556 . IVIdIIItalii as	ssociated data entry terminals					
SA3. read and understand manuals, SOPs, health and safety instructions, memos, reports, job cards etc.  SA4. read the data captured in source documents  SA5. Read and interpret patient records  Oral Communication (Listening and Speaking skills)  The user/individual on the job needs to know and understand how to:  SA6. communicate effectively to share information  SA7. listen attentively to gather information  Analytical Thinking  The user/individual on the job needs to know and understand how to:  SB1. use computer terminals  SB2. use computer applications  SB3. apply basic logic to identify data errors  SB4. pay attention to details  Critical Thinking  The user/individual on the job needs to know and understand how to:  SB5. Identify and resolve process improvements  Problem Solving  The user/individual on the job needs to know and understand how to:  SB6. reach out to supervisor for problems faced in assigned tasks  Decision Making  NA  Plan and Organize  NA		Reading Skills					
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NA Plan and Organize NA		Decision Making					
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#### **NOS Version Control**

NOS Code	LFS/N0536					
Credits(NSQF)	TBD Version number 1.0					
Industry	Life Sciences	15/01/15				
Industry Sub-sector	Pharmaceutical, Bio Pharmaceutical, Contract Research	Last reviewed on	01/08/16			
Occupation	R&D	Next review date	01/08/19			











LFS/N0302: Coordinate with Supervisors and colleagues within and outside the department

# National Occupational Standard



#### **Overview**

This Occupational Standard describes the knowledge, understanding and skills required of a Data Entry Operator to work as a team member and multi-task in order to achieve production on schedule and meeting the quality requirements.









#### LFS/N0302: Coordinate with Supervisors and colleagues within and outside the department

LFS/N0302 : Coordinate with Supervisors and colleagues within and outside the department				
Unit Code	LFS/N0302			
Unit Title (Task)	Coordinate with Supervisors and colleagues within and outside the department			
Description	This NOS unit is about the Data Entry Operator coordinating with supervisors and colleagues within and outside the department			
Scope	The unit/ task covers the following:  • Supervisors  • Team management			
Performance Criteria (I	PC) w.r.t. the Scope			
Element	Performance Criteria			
Supervisor	To be competent, the user/individual on the job must be able to:			
	<ul> <li>PC1. receive work instructions from reporting supervisor</li> <li>PC2. communicate to reporting supervisor about process-flow improvements, production defects received from previous process, repairs and maintenance of equipment as required</li> <li>PC3. communicate deviations in the production process to reporting supervisor</li> <li>PC4. communicate any potential hazards or expected process disruptions</li> <li>PC5. handover completed work to supervisor</li> </ul>			
Team Management	<ul> <li>PC6. work as a team with colleagues and share work as per their or own work load and skills</li> <li>PC7. work and support colleagues of other departments</li> <li>PC8. train line or reporting staff if needed</li> <li>PC9. communicate and discuss work flow related difficulties in order to find solutions with mutual agreement</li> <li>PC10. explain what information means and how it can be used to team members</li> <li>PC11. document all the control steps undertaken or recommended to be followed as per the standards</li> <li>PC12. interview team members and colleagues to collect data to be recorded in log books and batch documents if needed</li> </ul>			
Knowledge and Unders				
A. Organisational Context (Knowledge of the Company/ Organisation and its processes)	The user/individual on the job needs to know and understand:  KA1. company's policies on: preferred language of communication, reporting and escalation policy, quality delivery standards, and personnel management KA2. reporting structure			
B. Technical Knowledge	The user/individual on the job needs to know and understand:  KB1. communicate effectively			









#### LFS/N0302 : Coordinate with Supervisors and colleagues within and outside the department

	KB2. build team coordination
Skills (S)	
A. Core Skills/	Writing skills
Generic Skills	The user/ individual on the job needs to know and understand how to:
	SA1. read job sheets and interpret technical details mentioned in the jobsheet
	Reading skills
	The user/individual on the job needs to know and understand how to:
	SA2. read notes/comments from the supervisor
	Oral Communication (Listening and Speaking skills)
	The user/individual on the job needs to know and understand how to:
	SA3. interact with team members to work efficiently
B. Professional Skills	Decision Making
	The user/individual on the job needs to know and understand how to:
	SB1. spot and communicate potential areas of disruptions to work process and report the same
	SB2. when to report to supervisor and when to deal with a colleague individually, depending on the type of concern
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SB3. spot process disruptions and delays and report and communicate with solutions SB4. improve work processes by interacting with others and adopting best practices
	354. Improve work processes by interacting with others and adopting sest practices
	Analytical Thinking
	NA .
	Plan and Organize
	NA Problem Solving
	NA NA
	Customer Centricity
	NA









LFS/N0302 : Coordinate with Supervisors and colleagues within and outside the department

#### **NOS Version Control**

NOS Code	LFS/N0302						
Credits(NSQF)	TBD Version number 1.0						
Industry	Life Sciences	15/12/14					
Industry Sub-sector	Pharmaceutical and Bio Pharmaceuticals	Last reviewed on	01/08/16				
Occupation	R&D and Quality	Next review date	01/08/19				











#### **Annexure**

#### **Nomenclature for QP and NOS**

# Qualifications Pack 9 characters LFS/ Q 0101 QP Number (2 numbers) Occupational Standard An example of NOS with 'N' 9 characters LFS/ N 0101 LFS OS Number (2 numbers) Occupation (2 numbers) Occupation (2 numbers)









## Qualifications Pack For Data Entry Operator/ Documentation Officer The following acronyms/codes have been used in the nomenclature above:

Sub-Sector	Range of Occupation Numbers
Pharmaceutical and Biopharmaceutical and Contract Research	01-10
Pharmaceutical	11-20
Biopharmaceutical	21-30
Contract Research	31-40

Sequence	Description	Example		
47.33				
Three letters	Industry name	LFS		
Slash		The second		
Next letter	Whether <b>Q</b> P or <b>N</b> OS	Q/N		
Next two numbers	Occupation code	01		
Next two numbers	OS number	01		









<u>Job Role</u> Data Entry Operator/Documentation Officer

**Qualification Pack** LFS/Q0510

<u>Sector Skill Council</u> Life Sciences Sector Skill Development Council

#### **Guidelines for Assessment:**

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
- 3. Individual assessment agencies will create *unique question papers for theory part for each candidate at each examination/training center* (as per assessment criteria below)
- 4. Individual assessment agencies will create *unique evaluations for skill practical for every student* at each examination/training center based on this criteria
- 5. To pass the Qualification Pack, every trainee should score a minimum of 70% in every NOS
- 6. In case of successfully passing only certain number of NOS's, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.

				Marks A	Allocation
Assessment Outcome	Assessment Criteria of Outcomes	Total Marks (300)	Out Of	Theory	Skills Practical
LFS/N0535 (Enter, update and maintain	PC1. prioritize service requests according to organizational guidelines		6	3	3
R&D data in the system	PC2. fill and process mandated forms for receiving, processing, or tracking data	100	6	3	3
	PC3. enter data from source documents (such as patient report, test report etc.) or case report forms into computer application following standard sequence and coding protocols		14	6	8
	PC4. scan source documents in accordance with specific instructions		8	3	5
	PC5. verify data entered with source documents, checks for compliance with composition codes and style rules and corrects all typographical errors and missing or repeated data as per the source document only		8	2	6









PC6. maintain files of source documents or other information related to data entered PC7. investigate and confirm data that is unclear before entering PC8. generate reports of data entry, store completed work in designated locations and perform backup operations PC9. update database information to reflect most current source information, such as patient profiles PC10. assist in the filing and storage of security and back up data files PC11. respond to requests for information and access relevant files Total 100 40 60 EFS/NO536 (Maintain associated data entry job runs on the terminal sentry terminals) PC2. operate the terminal as per the defined organization procedures PC3. be attentive for error lights and indicators and highlight the same to the concerned authority PC4. correctly load files onto storage media of the system PC5. check for network and servers functioning prior to job commencement PC6. clear the terminal surrounding at the end of the jobs PC7. notify the appropriate authority of malfunctions PC2. proactively inform supervisor on issues requiring intervention within and outside the department) PC3. comply with company policy and rule PC4. deliver quality work on time and report any anticipated reasons for delays PC5. but team over individual goals 10 5 5 5		Data Entry Operatory Docume		1	ı	1
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department) PC4. deliver quality work on time and report any anticipated reasons for delays			100	10	5	5
report any anticipated reasons for delays 16 8 8						
delays	,			16	8	8
		PC5. put team over individual goals		10	5	5









PC6. be able to resolve conflicts	10	5	5
PC7. learn how to multi-task relevant	10	Е	_
activities	10	,	J
PC8. provide guidance and direction to subordinates, including setting performance standards and monitoring performance	12	5	7
PC9. Impart training to team members/cross-function team members	12	5	7
Total	100	48	52