



QUALIFICATIONS PACK - NATIONAL OCCUPATIONAL STANDARDS FOR IT-BPM INDUSTRY

What are National Occupational Standards(NOS)?

NOS describe what individuals need to do, know and understand in order to carry out a particular job role or function

NOS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

Contact Us: IT-ITeS SSC NASSCOM E-mail: ssc@nasscom.in



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Qualifications Pack-Junior Software Developer

Introduction

SECTOR: IT-ITeS

SUB-SECTOR: IT Services

OCCUPATION: Application Development

REFERENCE ID: SSC/Q0508

ALIGNED TO: NCO-2015/ 2512.0205

Brief Job Description: Individuals in this job are assigned one of the many entry level roles in the software industry including support and help desk, testing, user interaction design, maintenance, enhancement, development and documentation. They are responsible for assisting in performing the key activities and tasks involved in the assigned role.

Personal Attributes: This job requires the individual to be flexible and operate under supervision for the area of work he/she is aligned to. The individual should have the necessary technical competency and be able to communicate effectively and work collaboratively. He/she should also have a willingness to learn and undertake a desk job entailing long hours.





Qualifications Pack Code	SSC/Q0508		
Job Role	Junior This job role is applicable in	Software Developer	
Credits (NSQF)	TBD	Version number	1.0
Sector	IT-ITeS	Drafted on	08/05/2014
Sub-sector	IT Services	Last reviewed on	08/05/2014
Occupation	Application Development	Next review date	31/03/2016
NSQC Clearance on	19/05/2015		

Job Role	Junior Software Developer
	(Developer, Software Analyst, Software Engineer, Systems
	Engineer, Programmer, Developer, Programmer Analyst)
	Individuals in this job are assigned one of the many entry level
	roles in the software industry including support and help desk, testing, user interaction design, maintenance, enhancement,
Role Description	development and documentation. They are responsible for
	assisting in performing the key activities and tasks involved in
	the assigned role
NSQF level	4
Minimum Educational Qualifications	12 th pass with good aptitude
Maximum Educational Qualifications	Bachelors Degree in /Engineering/Technology/
	Science/Computer Science or any graduate course
Training	Software Development Certifications in C++, Embedded, C#, C,
(Suggested but not mandatory)	Java etc.
Minimum Job Entry Age	18 years
Experience	0-2 years of work experience/internship in Software
	Development
	Compulsory:
	1. <u>SSC/ N 0506 (Assist in performing software construction</u> and software testing entry-level tasks in the IT Services
	industry)
	 SSC/N9001 (Manage your work to meet requirements)
	3. SSC/N9002 (Work effectively with colleagues)
	4. SSC/N9003 (Maintain a healthy, safe and secure working
Applicable National Occupational	environment)
Standards (NOS)	5. SSC/N9004 (Provide data/information in standard
	formats)
	6. SSC/N9005 (Develop your knowledge, skills and
	competence) 2
	Ontional
	Optional: Not Applicable
Performance Criteria	As described in the relevant NOS units



Qualifications Pack For Junior Software Developer



Glossary of Key Terms

	Keywords /Terms	Description
Definitions	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.
efin	Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
	Vertical	Vertical may exist within a sub-sector representing different domain areas or the client industries served by the industry.
	Occupation	Occupation is a set of job roles, which perform similar/related set of functions in an industry.
	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 OS.
	Sub-functions	Sub-functions are sub-activities essential to fulfill the achieving the objectives of the function.
	Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organization.
	Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
	Performance Criteria	Performance Criteria are statements that together specify the standard of performance required when carrying out a task.
	National Occupational Standards (NOS)	NOS are Occupational Standards which apply uniquely in the Indian context.
	Qualifications Pack Code	Qualifications Pack Code is a unique reference code that identifies a qualifications pack.
	Qualifications Pack(QP)	Qualifications Pack comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A Qualifications Pack is assigned a unique qualification pack code.
	Unit Code	Unit Code is a unique identifier for an OS unit, which can be denoted with either an ' O ' or an ' N '.
Unit Title Unit Title gives a clear overall statement abort should be able to do.		Unit Title gives a clear overall statement about what the incumbent should be able to do.
	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





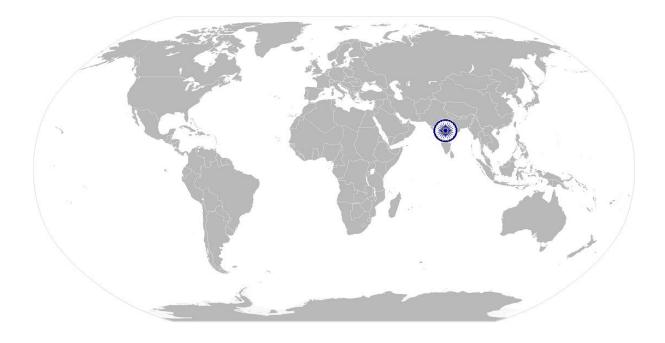
	appropriate OS they are looking for.
Scope	Scope is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.
Knowledge and	Knowledge and Understanding are statements which together specify the
Understanding	technical, generic, professional and organizational specific knowledge that an individual needs in order to perform to the required standard.
Organizational Context	Organizational Context includes the way the organization is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/Generic Skills	Core Skills or Generic Skills are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Helpdesk	Helpdesk is an entity to which the customers will report their IT problems. IT Service Helpdesk Attendant is responsible for managing the helpdesk.
Keywords /Terms	Description
IT-ITeS	Information Technology - Information Technology enabled Services
BPM	Business Process Management
вро	Business Process Outsourcing
КРО	Knowledge Process Outsourcing
LPO	Legal Process Outsourcing
IPO	Information Process Outsourcing
BCA	Bachelor of Computer Applications
B.Sc.	Bachelor of Science
OS	Occupational Standard(s)
NOS	National Occupational Standard(s)
QP	Qualifications Pack
UGC	University Grants Commission
MHRD	Ministry of Human Resource Development
MoLE	Ministry of Labor and Employment
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
NSQF	National Skill Qualification Framework







National Occupational Standard



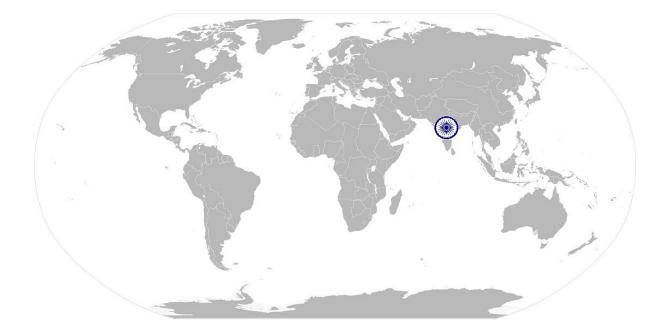
Overview

This unit is about assisting in performing the key activities and tasks in Software Construction and Testing entry level roles in the IT Services industry where their business impact and technical complexity are low.















	Unit Code	SSC/N0506
	Unit Title	Assist in performing software construction and software testing entry-level tasks in
	(Task)	the IT Services industry
	Description	This unit is about contributing to the design of software products and applications
		where both the business impact and technical complexity are low.
Γ	Scope	This unit/task covers the following:
		Work requirements:
		 Information (qualitative and quantitative)
		 Algorithms (steps in problem solving)
		Template (stencil / table)
		Appropriate people:
		Line manager
		• Peers
		Subject Matter experts
		Roles:
		• Testing
		Maintenance
		Enhancement
		Development
		Documentation
		User Interaction Design
	Performance Criteria (P	
		To be competent, you must be able to:
		PC1. demonstrate basic computer and internet literacy including operating a
		computer, describing its major components and how they work, using
		Windows and Linux OS, operating a browser, searching the internet,
		managing mails and using social internet media.
		PC2. demonstrate aptitude for analyzing information and making logical
		conclusions.
		PC3. demonstrate knowledge of the foundational mathematical concepts in
		computing.
		PC4. design algorithms to solve problems and convert them into code using the
		appropriate programming language constructs.
		PC5. read and execute a test case and record the outcome in the appropriate
L		







		template.		
	PC6.			
	PC0.	,		
	roles in simple English – both oral and written.			
Knowledge and Unders	-			
A. Organizational		ed to know and understand:		
Context	KA1.	the responsibilities, policies and guidelines associated with entry level roles		
(Knowledge of the		for entry level software developers in your organization		
company/	KA2.	the formal and informal continuous learning opportunities offered by your		
organization and		organization		
its processes)	KA3.	your organization's knowledge base and how to access and update the same		
	KA4.	the scope of work to be carried out and the importance of keeping within		
		these boundaries		
	KA5.	who you may need to involve to provide feedback on your work		
	KA6.	the importance of collating feedback on your output		
	KA7.	standard templates and tools available and how to use these documents at		
		your work		
B. Technical	You nee	ed to know and understand:		
Knowledge	KB1.	basic components of a computer, Windows and Linux OS, file systems and		
		task and process management		
	KB2.	web browsers, the World Wide Web, internet mail, internet search, web-		
		based social media applications and web programming		
	KB3.	logical analysis, problems solving skills, process approach, algorithmic		
		thinking and pseudo code		
	KB4.	foundational concepts of computation and mathematics including binary		
		arithmetic and number sense, discrete mathematics and numerical		
		descriptive measures of data		
	KB5.	programming language fundamentals and implementation of algorithms		
	KB6.	data base skills including DBMS, data design, and querying table structures for		
		specific data		
	KB7.	software engineering approaches to develop applications and the key		
		processes used for developing application software		
	KB8.	how to read a detailed program specification and implement it using a		
		programming language		
	KB9.	how to read a test case, execute the same and record the results of testing		
Skills (S)	I			
A. Core Skills/	Writin	g Skills		
· · · · · · · · · · · · · · · · · · ·		ed to know and understand how to:		







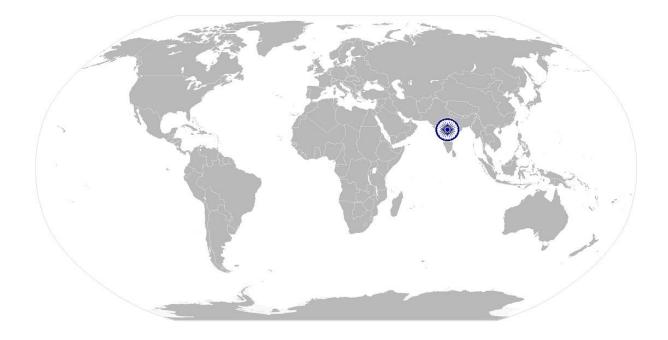
IT Services industry			
Generic Skills	SA1. write well in a complete and accurate manner with attention to detail		
	SA2. communicate with others in writing		
	Reading Skills		
	You need to know and understand how to:		
	SA3. follow guidelines/procedures/rules and service level agreements		
	Oral Communication (Listening and Speaking skills)		
	You need to know and understand how to:		
	SA4. listen effectively and communicate information orally in an accurate manner		
	SA5. ask for clarification and suggestions from others		
B. Professional Skills	Decision Making		
	You need to know and understand how to:		
	SB1. follow rule-based decision-making processes		
	SB2. identify anomalies in data		
	SB3. make decisions on suitable courses of action or responses		
	Plan and Organize		
	You need to know and understand how to:		
	SB4. plan and organize your work to achieve targets and deadlines		
	Customer Centricity		
	You need to know and understand how to:		
	SB5. carry out rule-based transactions in line with customer-specific		
	SB6. guidelines/procedures/rules and service level agreements		
	SB7. work effectively in a customer facing environment		
	Problem Solving		
	You need to know and understand how to:		
	SB8. apply problem-solving approaches in different situations		
	Analytical Thinking		
	You need to know and understand how to:		
	SB9. configure data and disseminate relevant information to others		
	SB10. analyze data and activities		
	Critical Thinking		
	You need to know and understand how to:		
	SB11. apply balanced judgments in different situations		
	Attention to Detail		
	You need to know and understand how to:		
	SB12. check if your work is complete and free from errors		
	SB13. peer review		







		Team Working		
		You need to know and understand how to:		
		SB14. work effectively in a team environment		
С.	Technical Skills	You need to know and understand how to:		
		SC1. use information technology effectively to input and/or extract data accurately		
		SC2. agree objectives and work requirements		
		SC3. keep up to date with changes, procedures and practices in your role		









SSC/ N 0506 Assist in performing software construction and software testing entry-level tasks in the IT Services industry <u>NOS Version Control</u>

NOS Code	SSC/N0506		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	08/05/2014
Industry Sub-sector	IT Services	Last reviewed on	08/05/2014
		Next review date	31/03/2016



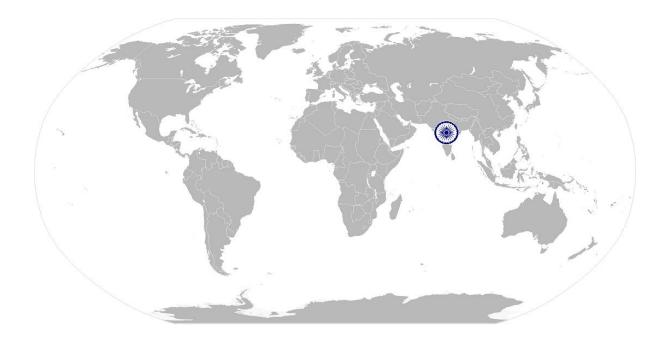






Manage your work to meet requirements

National Occupational Standard



Overview

This unit is about planning and organizing your work in order to complete it to the required standards on time









Unit Unit (Task Descr Scope

SSC/N9001	Manage your work to meet requirements
Unit Code	SSC/N9001
Unit Title (Task)	Manage your work to meet requirements
Description	This unit is about planning and organizing your work in order to complete it to the
	required standards on time.
Scope	This unit/task covers the following:
	Work requirements:
	 activities (what you are required to do)
	 deliverables (the outputs of your work)
	 quantity (the volume of work you are expected to complete)
	standards (what is acceptable performance, including compliance with Service
	Level Agreements)
	 timing (when your work needs to be completed)
	Appropriate people:
	 line manager the person requesting the work
	 members of the team/department
	members from other teams/departments
	Resources:
	• equipment
	materials
	information
Performance Criteria (I	PC) w.r.t. the Scope
	To be competent on the job, you must be able to:
	PC1. establish and agree your work requirements with appropriate people
	PC2. keep your immediate work area clean and tidy
	PC3. utilize your time effectively
	PC4. use resources correctly and efficiently
	PC5. treat confidential information correctly PC6. work in line with your organization's policies and procedures
	PC7. work within the limits of your job role
	PC8. obtain guidance from appropriate people , where necessary
	PC9. ensure your work meets the agreed requirements
Knowledge and Unders	
A. Organizational	You need to know and understand:
Context	KA1. your organization's policies, procedures and priorities for your area of work
(Knowledge of the	and your role and responsibilities in carrying out your work
company/	KA2. limits of your responsibilities and when to involve others
organization and	KA3. your specific work requirements and who these must be agreed with
its processes)	KA4. the importance of having a tidy work area and how to do this







KA5. how to prioritize your workload according to urgency and importance and the benefits of this KA6. your organization's policies and procedures for dealing with confidential information and the importance of complying with these KA7. the purpose of keeping others updated with the progress of your work KA8. who to obtain guidance from and the typical circumstances when this may be required KA9. the purpose and value of being flexible and adapting work plans to reflect change B. Technical You need to know and understand: Knowledge K81. the importance of completing work accurately and how to do this KB2. appropriate timescales for completing your work and the implications of not meeting these for you and the organization KB3. resources needed for your work and how to obtain and use these Skills (5) Vou need to know and understand how to: A. Core Skills/ Writing Skills You need to know and understand how to: SA1. SA2. read instructions, guidelines, procedures, rules and service level agreements Oral Communication (Listening and Speaking skills) You need to know and understand how to: SA2. read instructions, guidelines, procedures, rules and service level agreements Oral Communicate orally with colleagues S44. <tr< th=""><th>SSC/N9001</th><th>Manage your work to meet requirements</th></tr<>	SSC/N9001	Manage your work to meet requirements		
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SB4. deliver consistent and reliable service to customers SB5. check that your own work meets customer requirements		Customer Centricity		
SB5. check that your own work meets customer requirements		You need to know and understand how to:		
		SB4. deliver consistent and reliable service to customers		
Problem Solving		SB5. check that your own work meets customer requirements		
		Problem Solving		



NOS
National Occupational Standards





SSC/N9001	Manage your work to meet requirements		
	You need to know and understand how to:		
	SB6. refer anomalies to the line manager		
	SB7. seek clarification on problems from others		
Analytical Thinking			
	You need to know and understand how to:		
	SB8. provide relevant information to others		
	SB9. analyze needs, requirements and dependencies in order to meet your work		
	requirements		
	Critical Thinking		
	You need to know and understand how to:		
	SB10. apply judgments to different situations		
	Attention to Detail		
	You need to know and understand how to:		
SB11. check your work is complete and free from errors SB12. get your work checked by peers			
	You need to know and understand how to:		
	SB13. work effectively in a team environment		
C. Technical Skills	You need to know and understand how to:		
	SC1. use information technology effectively, to input and/or extract data		
	accurately		
	SC2. identify and refer anomalies in data		
	SC3. store and retrieve information		









Manage your work to meet requirements

SSC/N9001 NOS Version Control

NOS Code	SSC/N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	30/04/2013
Industry Sub-sector	IT Services	Last reviewed on	31/01/2015
		Next review date	31/03/2016



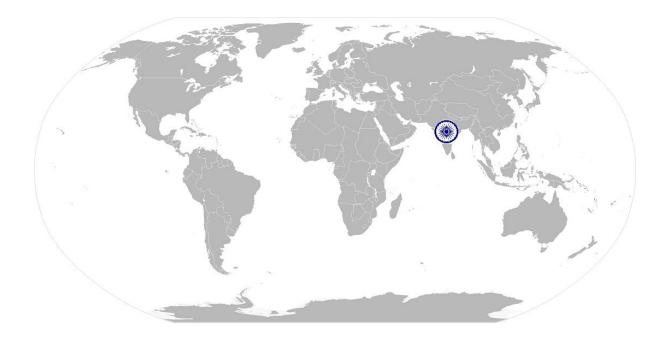




Work effectively with colleagues



National Occupational Standard



Overview

This unit is about working effectively with colleagues, either in your own work group or in other work groups within your organization.







N·S·D·C National Skill Development Corporation Transforming the skill landscape

Work effectively with colleagues

SSC/N9002	Work effectively with colleagues		
Unit Code	SSC/N9002		
Unit Title (Task)	Work effectively with colleagues		
Description	This unit is about working effectively with colleagues, either in your own work group		
	or in other work groups within your organization.		
Scope	This unit/task covers the following:		
	Colleagues:		
	line manager		
	 members of your own work group 		
	 people in other work groups in your organization 		
	Communicate:		
	• face-to-face		
	by telephone		
Deufermenne Cuiterie /r	in writing		
Performance Criteria (F			
	To be competent, you must be able to:		
	PC1. communicate with colleagues clearly, concisely and accurately		
	PC2. work with colleagues to integrate your work effectively with them PC3. pass on essential information to colleagues in line with organizational		
	requirements		
	PC4. work in ways that show respect for colleagues		
	PC5. carry out commitments you have made to colleagues		
	PC6. let colleagues know in good time if you cannot carry out your commitments,		
	explaining the reasons		
	PC7. identify any problems you have working with colleagues and take the		
	initiative to solve these problems		
	PC8. follow the organization's policies and procedures for working with colleagues		
Knowledge and Unders			
A. Organizational	You need to know and understand:		
Context	KA1. your organization's policies and procedures for working with colleagues and		
(Knowledge of the	your role and responsibilities in relation to this		
company/	KA2. the importance of effective communication and establishing good working		
organization and	relationships with colleagues		
its processes)	KA3. different methods of communication and the circumstances in which it is		
	appropriate to use these		
	KA4. benefits of developing productive working relationships with colleagues		
	KA5. the importance of creating an environment of trust and mutual respect in an		
	environment where you have no authority over those you are working with		
	KA6. where you do not meet your commitments, the implications this will have on		
	individuals and the organization		

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NOS	
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SS	C/N9002	Work effectively with colleagues		
В.	Technical	You need to know and understand:		
Knowledge		KB1. different types of information that colleagues might need and the importance		
		of providing this information when it is required		
		KB2. the importance of understanding problems from your colleague's perspective		
		and how to provide support, where necessary, to resolve these		
	ills (S)			
Α.	Core Skills/	Writing Skills		
	Generic Skills	You need to know and understand how to:		
		SA1. complete accurate, well written work with attention to detail		
		SA2. communicate effectively with colleagues in writing		
		Reading Skills		
		You need to know and understand how to:		
		SA3. read instructions, guidelines, procedures, rules and service level agreements		
		Oral Communication (Listening and Speaking skills)		
		You need to know and understand how to:		
		SA4. listen effectively and orally communicate information accurately		
		SA5. ask for clarification and advice from line managers		
В.	Professional Skills	Decision Making		
		You need to know and understand how to:		
		SB1. make a decision on a suitable course of action		
		Plan and Organize		
		You need to know and understand how to:		
		SB2. plan and organize your work to achieve targets and deadlines		
		Customer Centricity		
		You need to know and understand how to:		
		SB3. check that your own work meets customer requirements		
		SB4. deliver consistent and reliable service to customers		
		Problem Solving		
		You need to know and understand how to:		
		SB5. apply problem solving approaches in different situations		
		Critical Thinking		
		You need to know and understand how to:		
		SB6. apply balanced judgments to different situations		
		Attention to Detail		
		You need to know and understand how to:		
		SB7. check your work is complete and free from errors		
		SB8. get your work checked by peers		
L		1		



SSC/N9002

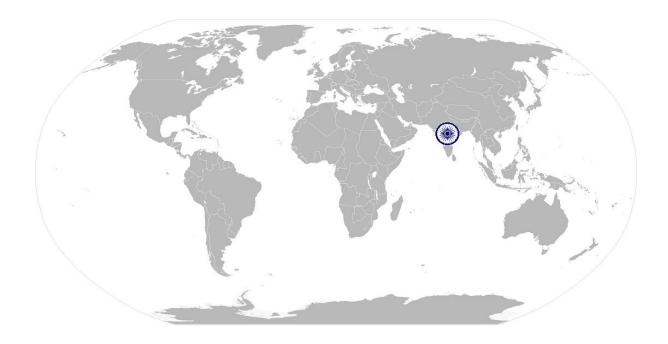






Work effectively with colleagues Team Working

	Team Working				
	You need to know and understand how to:				
	SB9. work effectively in a team environment				
	SB10. work effectively with colleagues and other teams				
	SB11. treat other cultures with respect				
C. Technical Skills	You need to know and understand how to:				
	SC1. identify and refer anomalies				
	SC2. help reach agreements with colleagues				
	SC3. keep up to date with changes, procedures and practices in your role				





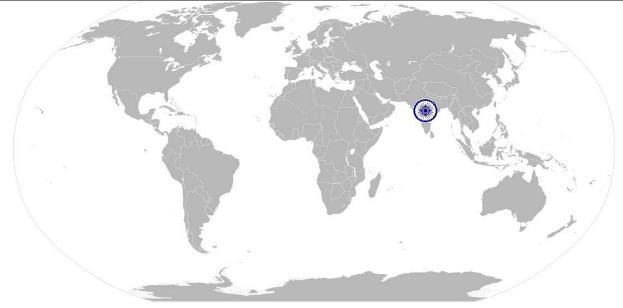






SSC/N9002 NOS Version Control Work effectively with colleagues

NOS Code	SSC/N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	30/04/2013
Industry Sub-sector	IT Services	Last reviewed on	31/01/2015
		Next review date	31/03/2016



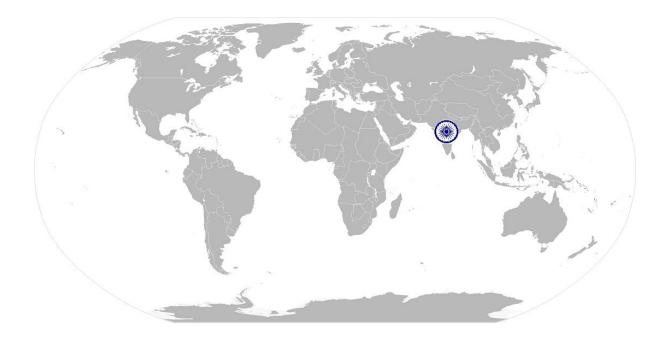






Maintain a healthy, safe and secure working environment

National Occupational Standard



Overview

This unit is about monitoring the working environment and making sure it meets requirements for health, safety and security.



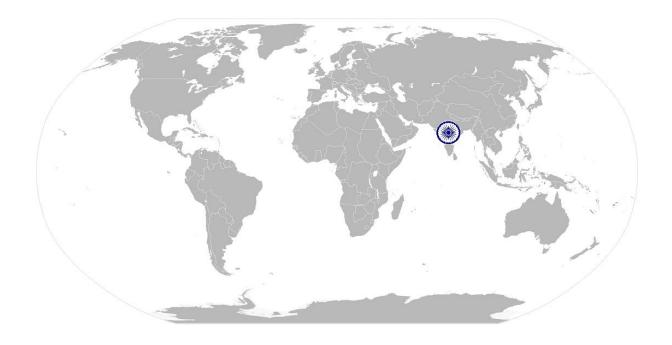






SSC/N9003

Maintain a healthy, safe and secure working environment









SSC/N9003 N	Maintain a healthy, safe and secure working environment		
Unit Code	SSC/N9003		
Unit Title (Task)	Maintain a healthy, safe and secure working environment		
Description	This unit is about monitoring your working environment and making sure it meets		
	requirements for health, safety and security.		
Scope	This unit/task covers the following:		
	Emergency procedures:		
	• illness		
	accidents		
	• fires		
	other reasons to evacuate the premises		
	breaches of security		
Performance Criteria (F			
	To be competent, you must be able to:		
	PC1. comply with your organization's current health, safety and security policies		
	PC2. report any identified breaches in health, safety, and security policies and		
	procedures to the designated person		
	PC3. identify and correct any hazards that you can deal with safely, competently		
	and within the limits of your authority		
	. 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		
	PC5. follow your organization's emergency procedures promptly, calmly, and efficiently		
	PC6. identify and recommend opportunities for improving health, safety, and		
	security to the designated person		
	PC7. complete any health and safety records legibly and accurately		
Knowledge and Unders	standing (K)		
A. Organizational	You need to know and understand:		
Context	KA1. legislative requirements and organization's procedures for health, safety and		
(Knowledge of the	security and your role and responsibilities in relation to this		
company/	KA2. what is meant by a hazard, including the different types of health and safety		
organization and	hazards that can be found in the workplace		
its processes)	KA3. how and when to report hazards		
	KA4. limits of your responsibility for dealing with hazards		
	KA5. your organization's emergency procedures for different emergency		
	situations and the importance of following these		
	KA6. the importance of maintaining high standards of health, safety and security		
	KA7. implications that any non-compliance with health, safety and security may		







SSC/N9003 N	Jaintain a healthy, safe and secure working environment			
	have on individuals and the organization			
B. Technical	You need to know and understand:			
Knowledge	KB1. different types of breaches in health, safety and security and how and when			
	to report these			
	KB2. evacuation procedures for workers and visitors			
	KB3. how to summon medical assistance and the emergency services, where			
	necessary			
	KB4. how to use the health, safety and accident reporting procedures and the			
	importance of these			
	KB5. government agencies in the areas of safety, health and security and their			
	norms and services			
Skills (S)				
A. Core Skills/	Writing Skills			
Generic Skills	You need to know and understand how to:			
	SA1. complete accurate, well written work with attention to detail			
	Reading Skills			
	You need to know and understand how to:			
	SA2. read instructions, guidelines, procedures, rules and service level agreements			
	Oral Communication (Listening and Speaking skills)			
You need to know and understand how to:				
	SA3. listen effectively and orally communicate information accurately			
B. Professional Skills	Decision Making			
	You need to know and understand how to:			
	SB1. make a decision on a suitable course of action			
	Plan and Organize			
	You need to know and understand how to:			
	SB2. plan and organize your work to meet health, safety and security requirements			
	Customer Centricity			
	You need to know and understand how to:			
	SB3. build and maintain positive and effective relationships with colleagues and			
	customers			
	Problem Solving			
	You need to know and understand how to:			
	SB4. apply problem solving approaches in different situations			
	Analytical Thinking			
	You need to know and understand how to:			
	SB5. analyze data and activities			









SSC/N9003 Maintain a healthy, safe and secure working environment				
Critical Thinking				
	You need to know and understand how to: SB6. apply balanced judgments to different situations			
	Attention to Detail			
	You need to know and understand how to:			
	SB7. check your work is complete and free from errors			
	SB8. get your work checked by peers			
	Team Working			
	You need to know and understand how to:			
	SB9. work effectively in a team environment			
C. Technical Skills	You need to know and understand how to:			
	SC1. identify and refer anomalies			
	SC2. help reach agreements with colleagues			
SC3. keep up to date with changes, procedures and practices in your role				









SSC/N9003 Maintain a healthy, safe and secure working environment NOS Version Control

NOS Code	SSC/N9003		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	30/04/2013
Industry Sub-sector	IT Services	Last reviewed on	31/01/2015
		Next review date	31/03/2016



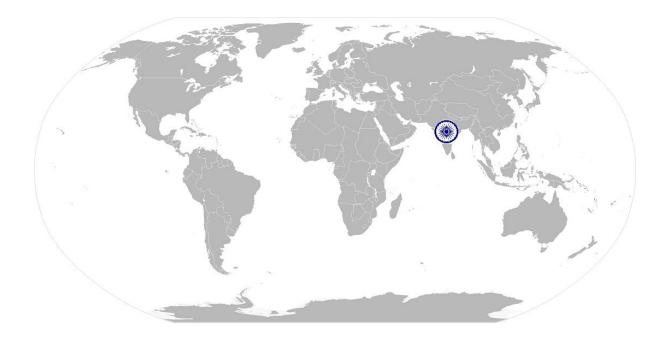






Provide data/information in standard formats

National Occupational Standard



Overview

This unit is about providing specified data/information related to your work in templates or other standard formats









SSC/N9004	Provide data/information in standard formats				
Unit Code	SSC/N9004				
Unit Title (Task)	Provide data/information in standard formats				
Description	This unit is about providing specified data/information related to your work in				
	templates or other standard formats.				
Scope	This unit/task covers the following:				
	Appropriate people:				
	Ine manager				
	members of your own work group				
	 people in other work groups in your organization 				
	subject matter experts				
	Data/information:				
	quantitative				
	qualitative				
	Sources:				
	within your organization				
	• outside your organization				
	Formats:				
	• paper-based				
	• electronic				
Performance Criteria (I	PC) w.r.t. the Scope				
	To be competent, you must be able to:				
	PC1. establish and agree with appropriate people the data/information you need				
	to provide, the formats in which you need to provide it, and when you need				
	to provide it				
	PC2. obtain the data/information from reliable sources				
	PC3. check that the data/information is accurate, complete and up-to-date				
	PC4. obtain advice or guidance from appropriate people where there are				
	problems with the data/information				
	PC5. carry out rule-based analysis of the data/information , if required				
	PC6. insert the data/information into the agreed formats				
	PC7. check the accuracy of your work, involving colleagues where required				
	PC8. report any unresolved anomalies in the data/information to appropriate				
	people				
	PC9. provide complete, accurate and up-to-date data/information to the				
	appropriate people in the required formats on time				
Knowledge and Unders	standing (K)				



NOS
National Occupational Standards



A. Organizational Context (Knowledge of the company/You need to know and understand: KA1. your organization's procedures and guidelines for providing data/inf in standard formats and your role and responsibilities in relation to the company/ KA2. the knowledge management culture of your organization organization and its processes)You need to know and understand: KA1. your organization's procedures and guidelines for providing data/inf in standard formats and your role and responsibilities in relation to the in standard formats and your organization (KA2. the knowledge management culture of your organization information and the importance of complying with these	this Ig				
(Knowledge of the company/ organization andin standard formats and your role and responsibilities in relation to the KA2. the knowledge management culture of your organization 	this Ig				
company/ organization andKA2. the knowledge management culture of your organization KA3. your organization's policies and procedures for recording and sharing	g				
organization and KA3. your organization's policies and procedures for recording and sharin	-				
	-				
information and the importance of complying with these					
its processes) information and the importance of complying with these					
KA4. the importance of validating data/information before use and how t	o do this				
KA5. procedures for updating data in appropriate formats and with prope	er				
validation					
KA6. the purpose of the CRM database					
KA7. how to use the CRM database to record and extract information	w to use the CRM database to record and extract information				
KA8. the importance of having your data/information reviewed by others					
KA9. the scope of any data/information requirements including the level	of detail				
required					
KA10. the importance of keeping within the scope of work and adhering to)				
timescales					
B. Technical You need to know and understand:					
Knowledge KB1. data/information you may need to provide including the sources and	d how to				
do this					
KB2. templates and formats used for data/information including their pu	rpose and				
how to use these					
KB3. different techniques used to obtain data/information and how to ap	ply				
KB4. these					
KB5. how to carry out rule-based analysis on the data/information					
KB6. typical anomalies that may occur in data/information					
KB7. who to go to in the event of inaccurate data/information and how to	o report				
this					
Skills (S)					
A. Core Skills/ Writing Skills					
Generic Skills You need to know and understand how to:					
SA1. complete accurate, well written work with attention to detail					
Reading Skills					
You need to know and understand how to:	You need to know and understand how to:				
SA2. read instructions, guidelines, procedures, rules and service level agree	SA2. read instructions, guidelines, procedures, rules and service level agreements				
Oral Communication (Listening and Speaking skills)					
You need to know and understand how to:					
SA3. listen effectively and orally communicate information accurately					
B. Professional Skills Decision Making					



NOS National Occupational Standards





•							
SSC/N9004		Provide data/information in standard formats					
		You need to know and understand how to:					
		SB1. follow rule-based decision-making processes					
		SB2. make a decision on a suitable course of action					
		Plan and Organize					
		You need to know and understand how to:					
		SB3. plan and organize your work to achieve targets and deadlines					
		Customer Centricity					
		You need to know and understand how to:					
		SB4. check that your own work meets customer requirements					
		SB5. meet and exceed customer expectations					
		Problem Solving					
		You need to know and understand how to:					
		SB6. apply problem solving approaches in different situations					
		Analytical Thinking					
		You need to know and understand how to:					
		SB7. configure data and disseminate relevant information to others					
		Critical Thinking					
		You need to know and understand how to:					
		SB8. apply balanced judgments to different situations					
		Attention to Detail					
		You need to know and understand how to:					
		SB9. check your work is complete and free from errors					
		SB10. get your work checked by peers					
		Team Working					
		You need to know and understand how to:					
		SB11. work effectively in a team environment					
C. Technica	l Skills	You need to know and understand how to:					
		SC1. use information technology effectively, to input and/or extract data					
		accurately					
		SC2. validate and update data					
		SC3. identify and refer anomalies in data					
		SC4. store and retrieve information					
		SC5. share information using standard formats and templates					
		SC6. keep up to date with changes, procedures and practices in your role					









SSC/N9004 Pr NOS Version Control

Provide data/information in standard formats

NOS Code	SSC/N9004				
Credits (NSQF)	TBD	TBD Version number 1.0			
Industry	IT-ITeS	Drafted on	30/04/2013		
Industry Sub-sector	IT Services	Last reviewed on	31/01/2015		
		Next review date	31/03/2016		





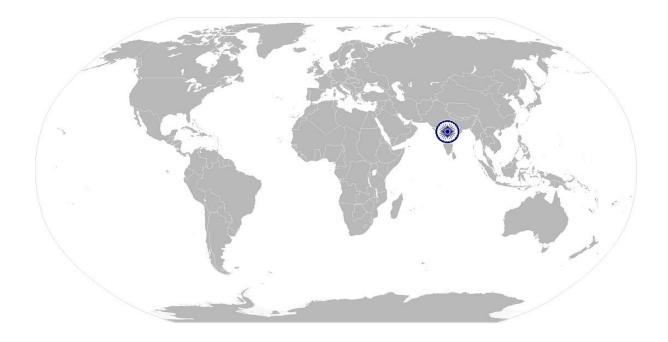




SSC/N9005

Develop your knowledge, skills and competence

National Occupational Standard



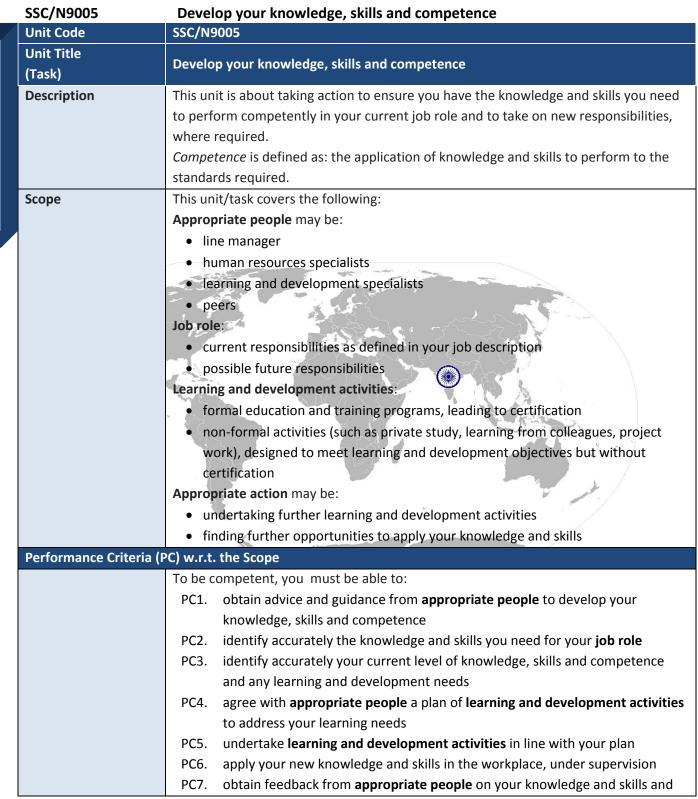
Overview

This unit is about taking action to ensure you have the knowledge and skills you need to perform competently in your current job role and to take on new responsibilities, where required.









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NOS National Occupational Standards





SSC/N9005	Develop your knowledge, skills and competence	
	how effectively you apply them	
	PC8. review your knowledge, skills and competence regularly and take appropria	ate
	action	
Knowledge and Unders	standing (K)	
A. Organizational	You need to know and understand:	
Context	KA1. your organization's procedures and guidelines for developing your	
(Knowledge of the	knowledge, skills and competence and your role and responsibilities in	
company/	relation to this	
organization and	KA2. the importance of developing your knowledge, skills and competence to yo	u
its processes)	and your organization	
	KA3. different methods used by your organization to review skills and knowledge including:	е
	training need analysis	
	skills need analysis	
	performance appraisals	
	KA4. how to review your knowledge and skills against your job role using differen	nt
	methods and analysis	
	KA5. different types of learning and development activities available for your job)
	role and how to access these	
	KA6. how to produce a plan to address your learning and development needs, w	ho
	to agree it with and the importance of undertaking the planned activities	
	KA7. different types of support available to help you plan and undertake learning	g
	and development activities and how to access these	
	KA8. why it is important to maintain records of your learning and development	
	KA9. methods of obtaining and accepting feedback from appropriate people on	
	your knowledge skills and competence	
	KA10. how to use feedback to develop in your job role	
B. Technical	You need to know and understand:	
Knowledge	KB1. the knowledge and skills required in your job role	
	KB2. your current learning and development needs in relation to your job role	
	KB3. different types of learning styles and methods including those that help you	u
	learn best	
	KB4. the importance of taking responsibility for your own learning and	
	development	
	KB5. to the importance of learning and practicing new concepts, theory and how	v
	to apply these in the work environment or on samples.	
	KB6. how to explore sample problems and apply solutions	
Skills (S)		









SSC/N9005	Develop your knowledge, skills and competence					
A. Core Skills/	Writing Skills					
Generic Skills	You need to know and understand how to:					
	SA1. communicate with colleagues in writing					
	Reading Skills					
	You need to know and understand how to:					
	SA2. read instructions, guidelines and procedures					
	Oral Communication (Listening and Speaking skills)					
	You need to know and understand how to:					
	SA3. ask for clarification and advice from line managers					
B. Professional Skills	Decision Making					
	You need to know and understand how to:					
	SB1. make a decision on a suitable course of action					
	Plan and Organize					
	You need to know and understand how to:					
	SB2. plan and organize your work to achieve targets and deadlines					
	Customer Centricity					
	You need to know and understand how to:					
	SB3. check that your own work meets customer requirements					
	roblem Solving					
	You need to know and understand how to:					
	SB4. refer anomalies to the line manager					
	Analytical Thinking					
	You need to know and understand how to:					
	SB5. analyze data and activities					
	Critical Thinking					
	You need to know and understand how to:					
	SB6. apply balanced judgments to different situations					
	Attention to Detail					
	You need to know and understand how to:					
	SB7. check your work is complete and free from errors					
	SB8. get your work checked by peers					
	Team Working					
	You need to know and understand how to:					
	SB9. work effectively in a team environment					
C. Technical Skills	You need to know and understand how to:					
	SC1. use information technology effectively					
	SC2. agree objectives and work requirements					



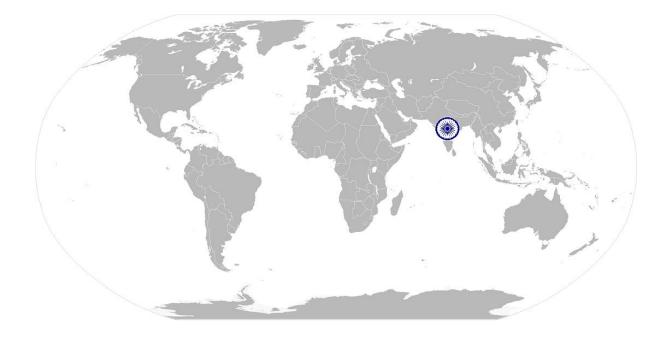




SSC/N9005

Develop your knowledge, skills and competence

SC3. keep up to date with changes, procedures and practices in your role











Develop your knowledge, skills and competence

SSC/N9005 NOS Version Control

NOS Code	SSC/N9005			
Credits (NSQF)	TBD Version number 1.0			
Industry	IT-ITeS	Drafted on	30/04/2013	
Industry Sub-sector	IT Services	Last reviewed on	31/01/2015	
		Next review date	31/03/2016	



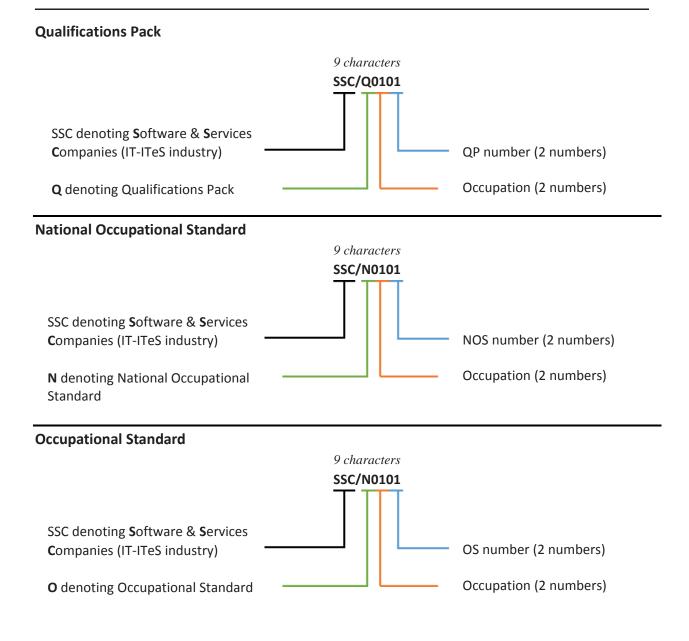








Nomenclature for QP and NOS Units



It is important to note that an OS unit can be denoted with either an 'O' or an 'N'.

- If an OS unit denotes 'O', it is an OS unit that is an international standard. An example of OS unit denoting 'O' is SSC/**O**0101.
- If an OS unit denotes 'N', it is an OS unit that is a national standard and is applicable only for the Indian IT-ITeS industry. An example of OS unit denoting 'N' is SSC/N0101









Nomenclature for QP and NOS Units

The following acronyms/codes have been used in the nomenclature above:

Sub-Sector	Range of Occupation numbers
IT Service (ITS)	01-20
Business Process Management (BPM)	21-40
Engg. and R&D (ERD)	41-60
Software Products (SPD)	61-80

Sequence	Description	Example	
Three letters	Industry name	SSC	
	(Software & Service Companies)		
Slash	/	/	
Next letter	Whether Q P or N OS	Ν	
Next two numbers	Occupation Code	01	
Next two numbers	OS number	01	







Criteria for Assessment of Traine	es
Junior Software Developer	
SSC/Q0508	
IT-ITeS	

Guidelines for Assessment:

Qualification Pack Sector Skill Council

Job Role

- 1. Criteria for assessment for each Qualification Pack (QP) will be created by the Sector Skill Council (SSC). Each performance criteria (PC) will be assigned Theory and Skill/Practical marks proportional to its importance in NOS.
- 2. The assessment will be conducted online through assessment providers authorised by SSC.
- 3. Format of questions will include a variety of styles suitable to the PC being tested such as multiple choice questions, fill in the blanks, situational judgment test, simulation and programming test.
- 4. To pass a QP, a trainee should pass each individual NOS. Standard passing criteria for each NOS is 70%.
- 5. For latest details on the assessment criteria, please visit <u>www.sscnasscom.com</u>.

				Marks Allocation	
Assessment Outcomes	Assessment Criteria for Outcomes	Total Mark	Out of	Theory	Skills Practical
1.SSC/N0506 (Assist in	PC 1. demonstrate basic computer and internet				
performing software	literacy including operating a computer, describing				
construction and	its major components and how they work, using				
software testing entry-	Windows and Linux OS, operating a browser,				
level tasks in the IT	searching the internet, managing mails and using				
Services Industry)	social internet media.		10	0	10
	PC 2. demonstrate aptitude for analyzing				
	information and making logical conclusions.		25	10	15
	PC 3. demonstrate knowledge of the foundational				
	mathematical concepts in computing.	100	20	5	15
	PC 4. design algorithms to solve problems and				
	convert them into code using the appropriate				
	programming language constructs.		30	10	20
	PC 5. read and execute a test case and record the				
	outcome in the appropriate template.		10	5	5
	PC 6. be able to communicate effectively with				
	appropriate people w.r.t. assigned roles in simple				
	English – both oral and written.		5	0	5
		Total	100	30	70
3.NOS/N9001 (Manage	PC1. establish and agree your work requirements				
your work to meet	with appropriate people				
requirements)			6.25	0	6.25
-	PC2. keep your immediate work area clean and	100			
	tidy		12.5	6.25	6.25
	PC3. utilize your time effectively	1	12.5	6.25	6.25



NOS National Occupational Standards





Criteria for Assessment of Trainees

	PC4. use resources correctly and efficiently		18.75	6.25	12.5
	PC5. treat confidential information correctly		6.25	0	6.25
	PC6. work in line with your organization's policies				
	and procedures		12.5	0	12.5
	PC7. work within the limits of your job role		6.25	0	6.25
	PC8. obtain guidance from appropriate people,				
	where necessary		6.25	0	6.25
	PC9. ensure your work meets the agreed				
	requirements		18.75	6.25	12.5
		Total	100	25	75
4.SSC/N9002 (Work	PC1. communicate with colleagues clearly, concisely				
effectively with	and accurately				
colleagues)			20	0	20
	PC2. work with colleagues to integrate your work				
	effectively with theirs		10	0	10
	PC3. pass on essential information to colleagues in				
	line with organizational requirements		10	10	0
	PC4. work in ways that show respect for colleagues		20	0	20
	PC5. carry out commitments you have made to	100			
	colleagues		10	0	10
	PC6. let colleagues know in good time if you cannot				
	carry out your commitments, explaining the reasons		10	10	0
	PC7. identify any problems you have working with				
	colleagues and take the initiative to solve these				
	problems		10	0	10
	PC8. follow the organization's policies and				
	procedures for working with colleagues		10	0	10
		Total	100	20	80
5.SSC/N9003 (Maintain	PC1. comply with your organization's current				
a healthy, safe and	health, safety and security policies and procedures				
secure working					
environment)			20	10	10
	PC2. report any identified breaches in health,				
	safety, and security policies and procedures to the				
	designated person		10	0	10
	PC3. identify and correct any hazards that you can				
	deal with safely, competently and within the limits				
	of your authority	100	20	10	10
	PC4. 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	0	10
	PC5. follow your organization's emergency				
	procedures promptly, calmly, and efficiently		20	10	10
	PC6. identify and recommend opportunities for				
	improving health, safety, and security to the designated person			0	10
			10		









Criteria for Assessment of Trainees

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	PC7. complete any health and safety records legibly and accurately		10	0	10
		Total	100	30	70
6.SSC/N9004 (Provide data/information in standard formats)	PC1. establish and agree with appropriate people the data/information you need to provide, the formats in which you need to provide it, and when you need to provide it	100	12.5	12.5	0
	PC2. obtain the data/information from reliable sources		12.5	0	12.5
	PC3. check that the data/information is accurate, complete and up-to-date		12.5	6.25	6.25
	PC4. obtain advice or guidance from appropriate people where there are problems with the data/information		6.25	0	6.25
	PC5. carry out rule-based analysis of the data/information, if required		25	0	25
	PC6. insert the data/information into the agreed formats		12.5	0	12.5
	PC7. check the accuracy of your work, involving colleagues where required		6.25	0	6.25
	PC8. report any unresolved anomalies in the data/information to appropriate people		6.25	6.25	0
	PC9. provide complete, accurate and up-to-date data/information to the appropriate people in the required formats on time		6.25	0	6.25
		Total	100	25	75
7.SSC/N9005 (Develop your knowledge, skills and competence)	PC1. obtain advice and guidance from appropriate people to develop your knowledge, skills and competence	100	10	0	10
	PC2. identify accurately the knowledge and skills you need for your job role		10	0	10
	PC3. identify accurately your current level of knowledge, skills and competence and any learning and development needs		20	10	10
	PC4. agree with appropriate people a plan of learning and development activities to address your learning needs		10	0	10
	PC5. undertake learning and development activities in line with your plan		20	10	10
	PC6. apply your new knowledge and skills in the workplace, under supervision		10	0	10
	PC7. obtain feedback from appropriate people on your knowledge and skills and how effectively you apply them		10	0	10
	PC8. review your knowledge, skills and competence regularly and take appropriate action		10	0	10
		Total	100	20	80