





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:

<u>ssc@nasscom.in</u>





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Introduction

Qualifications Pack-QA Engineer

SECTOR: IT-ITeS

SUB-SECTOR: IT Services

OCCUPATION: Testing and QA

REFERENCE ID: SSC/Q1302

ALIGNED TO: NCO-2015/2519.0301

QA Engineer in the IT-ITeS Industry is also known as a Software Quality Assurance Engineer, Quality Engineer.

Brief Job Description: Individuals in this job are responsible for coordination with the support and operations teams to maintain quality related schedules like audits, records and reports. The job involves setting quality standards for products, systems and processes within the organisation, followed by ensuring their effective implementation.

Personal Attributes: This job requires the individual to work independently and be comfortable in making decisions pertaining to his/her area of work. The individual should be result oriented with high attention to detail. The individual should also be able to demonstrate analytical and logical thinking to develop innovative solutions.









Qualifications Pack Code	SSC/Q1302		
Job Role	QA Engineer This job role is applicable in both national and international scenarios		
Credits (NSQF)	TBD	Version number	1.0
Sector	IT-ITeS	Drafted on	30/04/2013
Sub-sector	IT Services	Last reviewed on	31/01/2015
Occupation	Testing and QA	Next review date	31/03/2016
NSQC Clearance on	20/07/2015		

Job Role	QA Engineer (Software Quality Assurance Engineer, Quality Engineer, Quality Analyst)
Role Description	Design and implement Quality Assurance norms, standards and guidelines to be followed across the organisation
NSQF level Minimum Educational Qualifications	7 Bachelor's Degree in Science/Technology/Computers or any graduate course
Training (Suggested but not mandatory)	Master's Degree in Science/Technology/Computers Certifications in TQM, ISO etc. quality process, software testing techniques such as CMMI, SDLC, Six Sigma, TQM, test writing plans
Minimum Job Entry Age	18 years
Experience	0-2 years of work experience/internship in Software Development/Deployment
Applicable National Occupational Standards (NOS)	Compulsory: 1. SSC/N1304 (Contribute to quality assurance of projects) 2. 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 environment) 5. SSC/N9004 (Provide data/information in standard formats) 6. SSC/N9005 (Develop your knowledge, skills and competence) Optional: Not Applicable
Performance Criteria	As described in the relevant NOS units









Glossary of Key Terms

Definitions

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Qualifications Pack For QA Engineer

a critical impact on the quality of performance required.





Knowledge and Understanding	Knowledge and Understanding are statements which together specify the 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
Keywords /Terms IT-ITeS	Description Information Technology - Information Technology enabled Services
IT-ITeS	Information Technology - Information Technology enabled Services
IT-ITeS BPM	Information Technology - Information Technology enabled Services Business Process Management
IT-ITeS BPM BPO	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing
BPM BPO KPO	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing
BPM BPO KPO LPO	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing
BPM BPO KPO LPO IPO	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing
IT-ITeS BPM BPO KPO LPO IPO BCA	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications
BPM BPO KPO LPO IPO BCA B.Sc.	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications Bachelor of Science
IT-ITeS BPM BPO KPO LPO IPO BCA B.Sc. OS	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications Bachelor of Science Occupational Standard(s)
IT-ITeS BPM BPO KPO LPO IPO BCA B.Sc. OS NOS	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications Bachelor of Science Occupational Standard(s) National Occupational Standard(s)
IT-ITeS BPM BPO KPO LPO IPO BCA B.Sc. OS NOS	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications Bachelor of Science Occupational Standard(s) National Occupational Standard(s) Qualifications Pack
IT-ITeS BPM BPO KPO LPO IPO BCA B.Sc. OS NOS QP UGC	Information Technology - Information Technology enabled Services Business Process Management Business Process Outsourcing Knowledge Process Outsourcing Legal Process Outsourcing Information Process Outsourcing Bachelor of Computer Applications Bachelor of Science Occupational Standard(s) National Occupational Standard(s) Qualifications Pack University Grants Commission

National Vocational Qualifications Framework

National Skill Qualification Framework

NVQF

NSQF





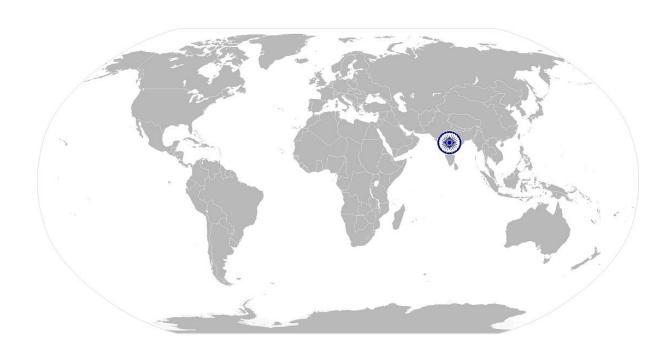




SSC/N1304

Contribute to quality assurance of projects

National Occupational Standard



Overview

This unit is about carrying out specified activities in support of the quality assurance of projects.



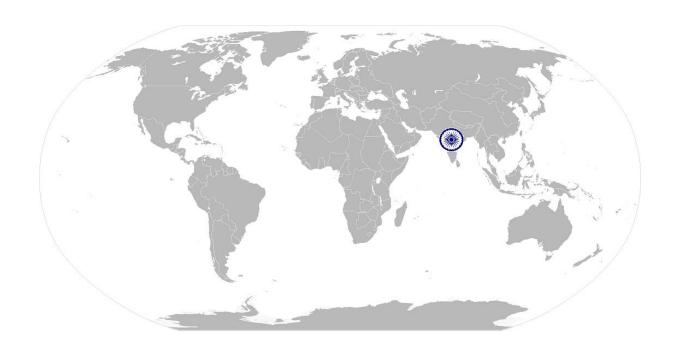






SSC/N1304

Contribute to quality assurance of projects





National Occupational Standards





SSC/N1304

Contribute to quality assurance of projects

Unit Code	SSC/N1304
Unit Title	Contribute to quality assurance of projects
(Task)	Contribute to quanty assurance or projects
Description	This unit is about carrying out specified activities in support of the quality assurance of
	projects.
Scope	This unit/task covers the following:
	Organization's requirements include:
	• policies
	standards
	• processes
	• procedures
	approved tools
	version control
	entry-exit criteria
	• approvals
	Appropriate people:
	• line manager
	• project team
	internal auditors
	subject matter experts
Performance Criteria (I	PC) w.r.t. the Scope
	To be competent, you must be able to:
	PC1. establish clearly the scope of your role and responsibilities in relation to
	quality assurance
	PC2. check that projects comply with your organization's requirements during
	every phase
	PC3. collect required data/information against key indicators using standard
	templates and tools
	PC4. analyze data/information to accurately identify risks to projects
	PC5. generate reports on checks carried out, data/information collected and risks
	identified using standard templates and tools
	PC6. schedule review meetings at agreed project milestones
	PC7. provide required information to project management reviewers, internal
	auditors and technical reviewers in time for review meetings
	PC8. check that the key actions from review meetings are accurately recorded
	PC9. monitor project progress to check that key actions are taken on time
	PC10. obtain advice and guidance from appropriate people , where necessary
	PC11. comply with relevant standards, policies, procedures, guidelines and service
	level agreements (SLAs) when contributing to quality assurance









SSC/N1304 Contribute to quality assurance of projects

PC12. carry out root cause analysis of process failures in projects to facilitate process improvements PC13. identify and share good practice with others to improve productivity Knowledge and Understanding (K) A. Organizational Context (Knowledge of the company/ organization and its processes) KA1. your organization's policies, standards, procedures, guidelines and service level agreements for the quality assurance of projects and your role in applying these KA2. the principles of effective quality assurance work being undertaken KA4. key indicators for the quality assurance of projects and why projects must comply with these KA5. methods of collecting data/information to quality assure projects and how to apply these KA6. the range of standard tools and templates available for quality assurance of projects and how to use them KA7. the types and purpose of data/information provided to: a. management reviewers b. internal auditors c. technical reviewers KA8. how to record, report and present data/information/data with others KA10. the importance of providing timely and accurate information to others KA11. how to identify project risks and their potential/actual impact KA12. the purpose of scheduling regular review meetings and how to do this KA13. how to monitor and report on progress KA14. what to do when actions have not been completed on time KA15. the importance of conducting root cause analysis and how to do this KA16. how to conduct trend analysis KA17. how to determine examples good practice KA18. how to carry out unit level analysis of multiple projects KA19. the importance of project commitments to customers KA20. how to determine examples good practice KA19. the importance of project commitments to customers KA20. how to determine examples good practice KA19. the importance of project commitments to customers KA20. how to determine examples good practice KA19. the importance of project commitments to customers KA20. how to deview and track improvement plans Poun seed to kno	3C/ N13U4	Contribute to quanty assurance of projects	
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KA20. how to review and track improvement plans You need to know and understand: Knowledge KB1. the methods of collecting data/information for quality assurance and how to apply these KB2. how to analyze data/information and how to use this analysis to identify risks to projects		KA18. how to carry out unit level analysis of multiple projects	
B. Technical Knowledge KB1. the methods of collecting data/information for quality assurance and how to apply these KB2. how to analyze data/information and how to use this analysis to identify risks to projects		KA19. the importance of project commitments to customers	
Knowledge KB1. the methods of collecting data/information for quality assurance and how to apply these KB2. how to analyze data/information and how to use this analysis to identify risks to projects		KA20. how to review and track improvement plans	
apply these KB2. how to analyze data/information and how to use this analysis to identify risks to projects	B. Technical	You need to know and understand:	
KB2. how to analyze data/information and how to use this analysis to identify risks to projects	Knowledge	KB1. the methods of collecting data/information for quality assurance and how to	
to projects		apply these	
		KB2. how to analyze data/information and how to use this analysis to identify risks	
KB3. how to identify project risks and their potential/actual impact		to projects	
		KB3. how to identify project risks and their potential/actual impact	









C/N1304	Contribute to quality assurance of projects KB4. the principles of project management and project lifecycle models		
	KB5. different quality tools in your organization and how to use these		
Skills (S)	RBS. different quality tools in your organization and now to use these		
A. Core Skills/ Writing Skills			
Generic Skills	You need to know and understand how to:		
Generic Skins	SA1. communicate with others in writing		
	SA2. complete accurate well written work with attention to detail		
	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. ask for clarification and advice from others SA5. listen effectively and orally communicate information accurately B. Professional Skills Decision Making			
		B. Professional Skills	Decision Making You need to know and understand how to:
SB1. make a decision on a suitable course of action or response Plan and Organize			
	You need to know and understand how to:		
	Customer Centricity You need to know and understand how to:		
	SB3. check that your own and/or your peers work meets customer requirement		
	SB4. work effectively in a customer facing environment		
	SB5. build and maintain positive and effective relationships with customers SB6. deliver work on time and free of defects		
	SB6. deliver work on time and free of defects SB7. facilitate customer feedback		
	You need to know and understand how to:		
	SB8. apply problem-solving approaches in different situations		
	SB9. seek clarification on problems from others		
SB10. refer anomalies to the supervisor Analytical Thinking You need to know and understand how to			
			You need to know and understand how to:
	SB11. analyze data and disseminate relevant information to others		
	SB12. configure data and disseminate relevant information to others		
	Critical Thinking You need to know and understand how to:		
	You need to know and understand how to:		
	SB13. provide opinions on work in a detailed and constructive way		









SS	C/N1304	Contribute to quality assurance of projects	
		SB14. apply balanced judgments to different situations	
		Attention to Detail	
		You need to know and understand how to:	
		SB15. check your work is complete and free from errors	
		SB16. get your work checked by others	
		Team Working	
		You need to know and understand how to:	
		SB17. work independently and collaboratively	
		SB18. 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. agree objectives and work requirements	
		SC3. store and retrieve information	
		SC4. Keep up to date with changes, procedures and practices in your role	









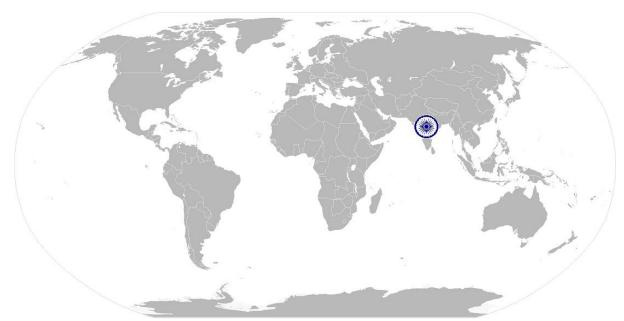


SSC/N1304

Contribute to quality assurance of projects

NOS Version Control

NOS Code		SSC/N1304	
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





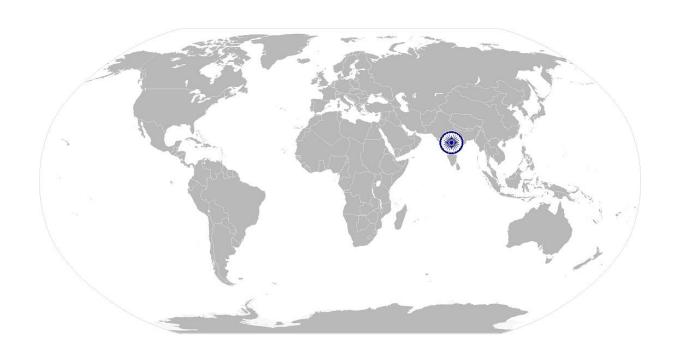






SSC/N9001 Manage your work to meet requirements

National Occupational Standard



Overview

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



National Occupational Standards





SSC/N9001

Manage your work to meet requirements

SSC/N9001	Manage your work to meet requirements		
Unit Code	SSC/N9001		
Unit Title	Manage your work to meet requirements		
(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:		
	equipmentmaterials		
	• information		
Performance Criteria (F			
(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		









SSC/N9001	Manage your work to meet requirements	
-	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	KB1. 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 (S)		
A. Core Skills/	Writing Skills	
Generic Skills	You need to know and understand how to:	
	SA1. complete accurate 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. ask for clarification and advice from line managers	
	SA4. communicate orally with colleagues	
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	
	SB3. agree objectives and work requirements	
Customer Centricity You need to know and understand how to:		
	SB5. check that your own work meets customer requirements	
	Problem Solving	
	You need to know and understand how to:	
	SB6. refer anomalies to the line manager	
	SB7. seek clarification on problems from others	
	Analytical Thinking	









SSC/N9001	Manage your work to meet requirements		
	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		
	Team Working		
	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		
	SC4. keep up to date with changes, procedures and practices in your role		





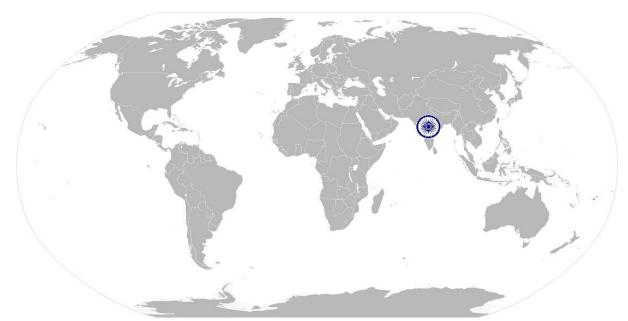




SSC/N9001 NOS Version Control

Manage your work to meet requirements

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





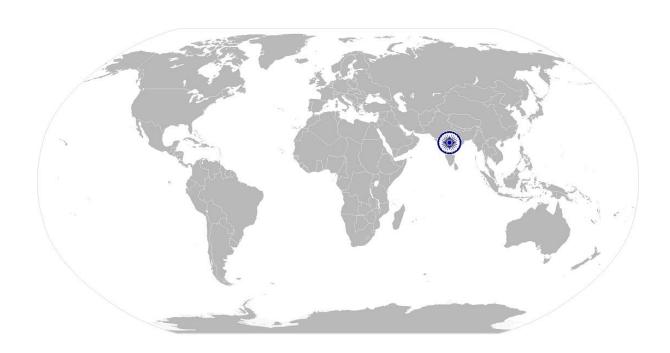






Work effectively with colleagues

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.



National Occupational Standards





SSC/N9002

Work effectively with colleagues

SSC/N9002	work effectively with colleagues		
Unit Code	SSC/N9002		
Unit Title	Work effectively with colleagues		
(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		
	• in writing		
Performance Criteria (I			
	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	standing (K)		
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		
μ. σοσσοσή	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		
B. Technical	You need to know and understand:		
b. rechnical	KB1. different types of information that colleagues might need and the importance		
	KD1. different types of information that coneagues finglit need and the importance		









SSC/N9002	Work effectively with colleagues		
Knowledge	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		
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		
	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		
B. Professional Skills	Decision Making		
	You need to know and understand how to:		
	SB1. make a decision on a suitable course 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		
	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		



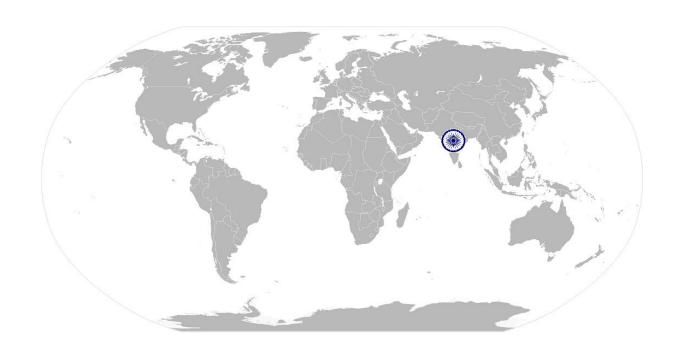






SSC/N9002 Work effectively with colleagues

		SB11. treat other cultures with respect	
C. Tec	chnical 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	







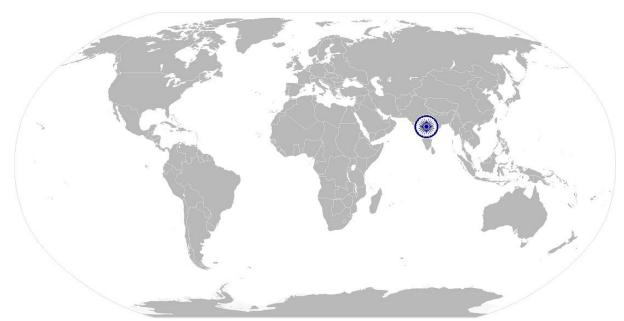




SSC/N9002 NOS Version Control

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





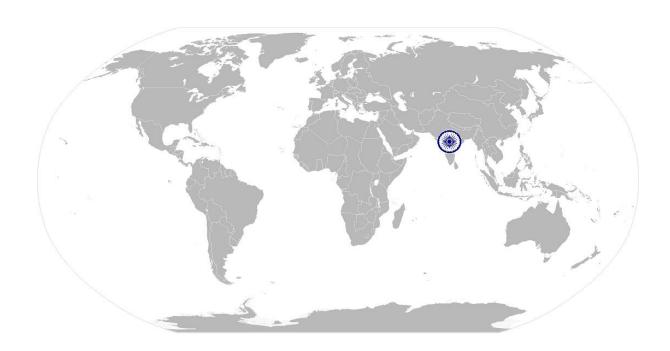






Maintain a healthy, safe and secure working environment

National Occupational Standard



Overview

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



National Occupational Standards





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

Unit Code	SSC/N9003
Unit Title	Maintain a healthy cafe and secure working environment
(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 (PC) w.r.t. the Scope

		-			
To be com	notont	MOLL	muct	ho	abla to
TO DE COIT	Detell.	vuu-	IIIUSE	DE.	able to.

- PC1. comply with your organization's current health, safety and security policies and procedures
- 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
- 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
- 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 Understanding (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		
	have on individuals and the organization		









SSC/N9003	Maintain a healthy, safe and secure working environment		
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		
	Critical Thinking		
	You need to know and understand how to:		
	SB6. apply balanced judgments to different situations		
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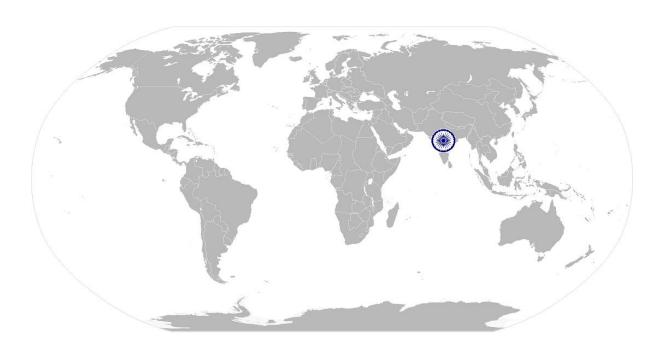






SSC/N9003 Maintain a healthy, safe and secure working environment

	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		







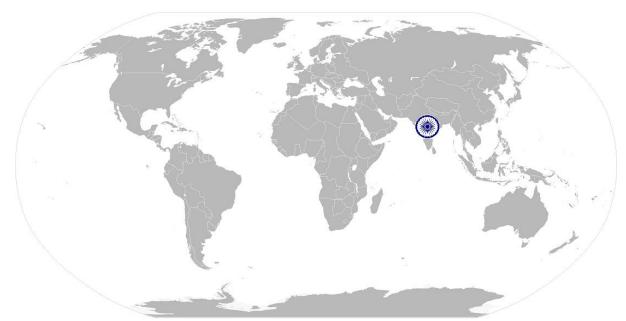




SSC/N9003 NOS Version Control

Maintain a healthy, safe and secure working environment

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		







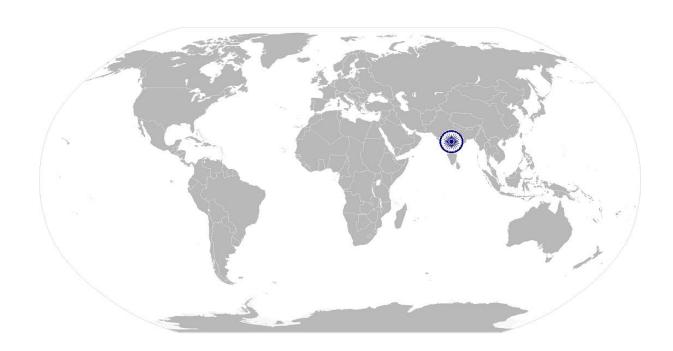




SSC/N9004

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



Context







SSC/N9004 Provide data/information in standard formats

SSC/N9004	Provide data/information in standard formats
Unit Code	SSC/N9004
Unit Title	Provide data/information in standard formats
(Task)	Fiovide 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:
	line 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)
A. Organizational	You need to know and understand:
	I MAA

KA1. your organization's procedures and guidelines for providing data/information









SSC/N9004	Provide data/information in standard formats		
(Knowledge of the	in standard formats and your role and responsibilities in relation to this		
company/	KA2. the knowledge management culture of your organization		
organization and	KA3. your organization's policies and procedures for recording and sharing		
its processes)	information and the importance of complying with these		
	KA4. the importance of validating data/information before use and how to do this		
	KA5. procedures for updating data in appropriate formats and with proper		
	validation		
	KA6. the purpose of the CRM database		
	KA7. how 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 how to		
	do this		
	KB2. templates and formats used for data/information including their purpose and		
	how to use these		
	KB3. different techniques used to obtain data/information and how to apply		
	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 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:		
	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. follow rule-based decision-making processes		
	SB2. make a decision on a suitable course of action		









SSC/N9004	Provide data/information in standard formats		
	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. Technical 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		





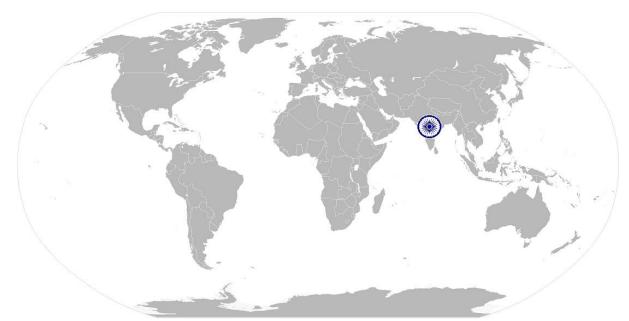




SSC/N9004 NOS Version Control

Provide data/information in standard formats

NOS Code	SSC/N9004					
Credits(NVEQF/NVQF/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			







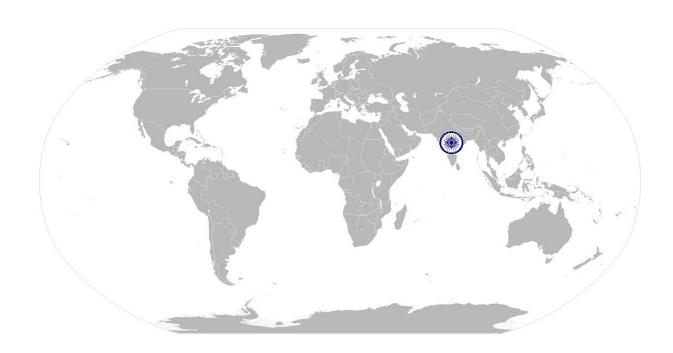




SSC/N9005

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.









SSC/N9005 Develop your knowledge, skills and competence

Unit Code	SSC/N9005			
Unit Title	Develop your knowledge, skills and competence			
(Task)	Develop your knowledge, skills and competence			
Description	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.			
	Competence is defined as: the application of knowledge and skills to perform to the			
	standards required.			
Scope	This unit/task covers the following:			
	Appropriate people may be:			
	line manager			
	human resources specialists			
	learning and development specialists			
	• peers			
	Job role:			
	 current responsibilities as defined in your job description 			
	possible future responsibilities			
	Learning and development activities:			
	formal education and training programs, leading to certification			
	 non-formal activities (such as private study, learning from colleagues, project 			
	work), designed to meet learning and development objectives but without			
	certification			
	Appropriate action may be:			
	undertaking further learning and development activities			
	finding further opportunities to apply your knowledge and skills			
Performance Criteria (PC) w.r.t. the Scope			
	To be competent, you must be able to:			
	PC1. obtain advice and guidance from appropriate people to develop your			
	knowledge, skills and competence			
	PC2. identify accurately the knowledge and skills you need for your job role			
	PC3. identify accurately your current level of knowledge, skills and competence			
	and any learning and development needs			
	PC4. agree with appropriate people a plan of learning and development activities			
	to address your learning needs			
	PC5. undertake learning and development activities in line with your plan			
	PC6. apply your new knowledge and skills in the workplace, under supervision			
	PC7. obtain feedback from appropriate people on your knowledge and skills and			
	how effectively you apply them			
	PC8. review your knowledge, skills and competence regularly and take appropriate			









SSC/N9005 Develop your knowledge, skills and competence

action	
(and also and the development of the	
Knowledge and Understanding (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 its processes) KA2. the importance of developing your knowledge, skills and competence to and your organization	ou/
KA3. different methods used by your organization to review skills and knowled	ge
including:	0 -
training need analysis	
skills need analysis	
performance appraisals	
KA4. how to review your knowledge and skills against your job role using different	ent
methods and analysis	
KA5. different types of learning and development activities available for your j	ob
role and how to access these	
KA6. how to produce a plan to address your learning and development needs,	who
to agree it with and the importance of undertaking the planned activities	
KA7. different types of support available to help you plan and undertake learn	ng
and development activities and how to access these	
KA8. why it is important to maintain records of your learning and developmen	:
KA9. methods of obtaining and accepting feedback from appropriate people o	n
your knowledge skills and competence	
KA10. how to use feedback to develop in your job role	
3. 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 y	ou
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 he	w
to apply these in the work environment or on samples.	
KB6. how to explore sample problems and apply solutions	
skills (S)	
A. Core Skills/ Writing Skills	
Generic Skills You need to know and understand how to:	
SA1. communicate with colleagues in writing	









SSC/N9005	Develop your knowledge, skills and competence			
	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			
	Problem 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			
	SC3. keep up to date with changes, procedures and practices in your role			





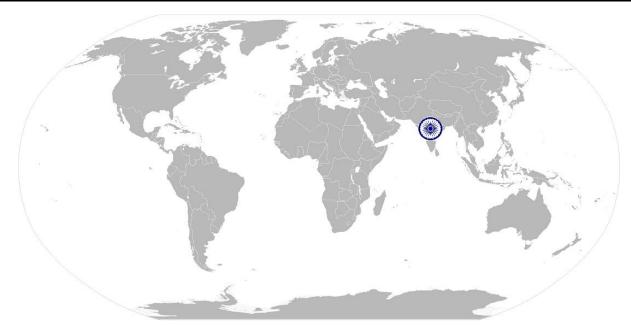




SSC/N9005 NOS Version Control

Develop your knowledge, skills and competence

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



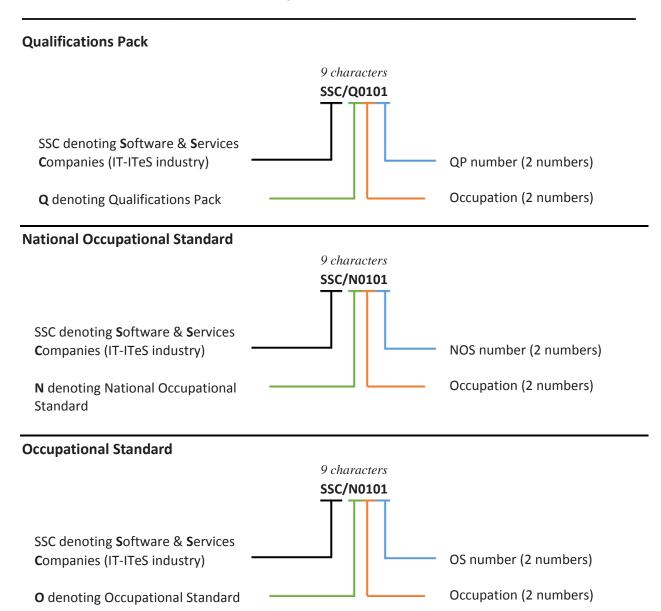








Nomenclature for QP and NOS Units



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	N
Next two numbers	Occupation Code	01
Next two numbers	OS number	01







Job RoleQA EngineerQualification PackSSC/Q1302Sector Skill CouncilIT-ITeS

Guidelines for Assessment:

- 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/N1304					
(Contribute to quality	PC1. establish clearly the scope of your role and				
assurance of projects)	responsibilities in relation to quality assurance		5	5	0
	PC2. check that projects comply with your				
	organization's requirements during every phase		5	5	0
	PC3. collect required data/information against				
	key indicators using standard templates and				
	tools		10	0	10
	PC4. analyze data/information to accurately				
	identify risks to projects		10	0	10
	PC5. generate reports on checks carried out,				
	data/information collected and risks identified	100			
	using standard templates and tools		10	0	10
	PC6. schedule review meetings at agreed				
	project milestones		5	5	0
	PC7. provide required information to project				
	management reviewers, internal auditors and				
	technical reviewers in time for review meetings		5	5	0
	PC8. check that the key actions from review		_		
	meetings are accurately recorded		10	0	10
	PC9. monitor project progress to check that key		_		
	actions are taken on time		5	5	0
	PC10. obtain advice and guidance from				
	appropriate people, where necessary		5	5	0









Г	Criteria for Assessment of Trainees	Т	1		
	PC11. comply with relevant standards, policies,				
	procedures, guidelines and service level				
	agreements (SLAs) when contributing to quality				
	assurance		10	0	10
	PC12. carry out root cause analysis of process				
	failures in projects to facilitate process				
	improvements		10	0	10
	PC13. identify and share good practice with				
	others to improve productivity		10	0	10
		Total	100	30	70
2.SSC/N9001 (Manage	PC1. establish and agree your work				
your work to meet	requirements with appropriate people				
requirements)			6.25	0	6.25
	PC2. keep your immediate work area clean				
	and tidy		12.5	6.25	6.25
	PC3. utilize your time effectively		12.5	6.25	6.25
	PC4. use resources correctly and efficiently		18.75	6.25	12.5
	PC5. treat confidential information correctly	45-	6.25	0.23	6.25
	PC6. work in line with your organization's	100	0.23	U	0.23
	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		6.25	0	6.25
	people, where necessary		6.25	0	6.25
	PC9. ensure your work meets the agreed		10.75	6.25	12 5
	requirements		18.75	6.25	12.5
		Total	100	25	75
3.SSC/N9002 (Work	PC1. communicate with colleagues clearly,				
effectively with	concisely 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
4.SSC/N9003 (Maintain a	PC1. comply with your organization's current	100	20	10	10









	Criteria for Assessment of Trainees				
healthy, safe and secure	health, safety and security policies and				
working environment)	procedures				
	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		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		10	0	10
	PC7. complete any health and safety records				
	legibly and accurately		10	0	10
		Total	100	30	70
	PC1. establish and agree with appropriate				
5.SSC/N9004 (Provide	people the data/information you need to				
data/information in standard formats)	provide, the formats in which you need to	100			
	provide it, and when you need to provide it		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
6.SSC/N9005 (Develop	PC1. obtain advice and guidance from		100	23	,,
your knowledge, skills	appropriate people to develop your knowledge,				
and competence)	skills and competence	100	10	0	10
and competence)	PC2. identify accurately the knowledge and	100	10		10
	skills you need for your job role		10	0	10
	anna you need for your job fole		10	U	10









	Total	100	20	80
action		10	0	10
competence regularly and take appropriate				
PC8. review your knowledge, skills and				
on your knowledge and skills and how effectively you apply them		10	0	10
PC7. obtain feedback from appropriate people				
PC6. apply your new knowledge and skills in the workplace, under supervision		10	0	10
activities in line with your plan		20	10	10
PC5. undertake learning and development				
learning and development activities to address your learning needs		10	0	10
PC4. agree with appropriate people a plan of		20	10	10
knowledge, skills and competence and any learning and development needs		20	10	10
PC3. identify accurately your current level of				