





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

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Introduction

Qualifications Pack – AI - Data Engineer

SECTOR: IT-ITeS

SUB-SECTOR: Future Skills

OCCUPATION: Artificial Intelligence & Big Data Analytics

REFERENCE ID: SSC/Q8106

ALIGNED TO: NCO-2015/2521.0100

Brief Job Role Description: Individuals at this job are responsible for working on different aspects of data architecture. S/he will be responsible for developing data integrations.

Personal Attributes: A data engineer needs to be well organized and have good attention to detail and problem solving abilities.



Job Details







Qualifications Pack Code	SSC/Q8106		
Job Role	AI- Data Engineer This job role is applicable both in national and international scenarios		
Credits (NSQF)	TBD	Version number	1.0
Sector	IT-ITeS	Drafted on	29/08/2018
Sub-sector	Future Skills	Last reviewed on	17/10/2018
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019
NSQC Clearance on	19/12/2018		

Job Role	AI - Data Engineer		
	(Data Pipeline Engineer, Data Pipeline Developer, Data Warehouse Developer, Data Warehouse Engineer)		
Baraniatian	Individuals at this job are responsible for working on		
Description	different aspects of data architecture. S/he will be responsible for developing data integrations.		
NSQF Level	7		
Minimum Educational Qualifications*	Bachelor's Degree in Engineering / Technology / Statistics /		
	Mathematics / Computer Science		
Maximum Educational Qualifications*	Not Applicable		
Prerequisite License or Training	Not Applicable		
(Mandatory)	Not Applicable		
Minimum Job Entry Age	21 years (Recommended)		
Experience	2 – 5 years (Recommended)		
	Compulsory:		
	SSC/N8112 Develop data integrations as per		
	specifications		
	2. <u>SSC/N9001 Manage your work to meet requirements</u>		
	3. SSC/N9002 Work effectively with colleagues		
Applicable National Occupational	4. SSC/N9004 Provide data/information in standard		
Standards (NOS)	<u>formats</u>		
	5. SSC/N9005 Develop your knowledge, skills and		
	<u>competence</u>		
	6. SSC/N9006 Build and maintain relationships at the		
	workplace		
Performance Criteria	As described in the relevant NOS units		









Keywords /Terms	Description
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job Role	Job role defines a unique set of tasks that together form a unique employment opportunity in an organisation.
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 (QP)	QP comprises the set of QSs, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	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 a 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 quality of performance required.
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual need to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.



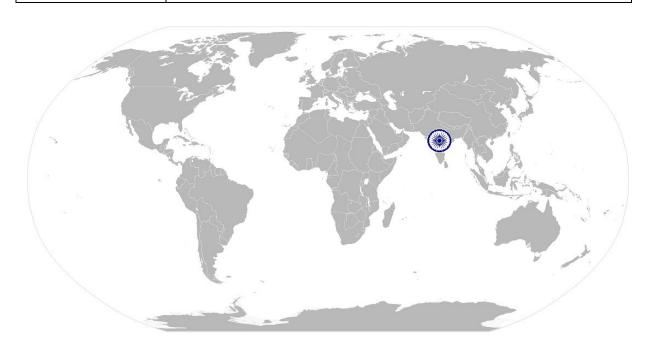






Acronyms

Keywords /Terms	Description
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
IT-ITeS	Information Technology – Information Technology enabled Services
SPD	Software Product Development
ERD	Engineering and R&D
ITS	Information Technology Services
BPM	Business Process Management





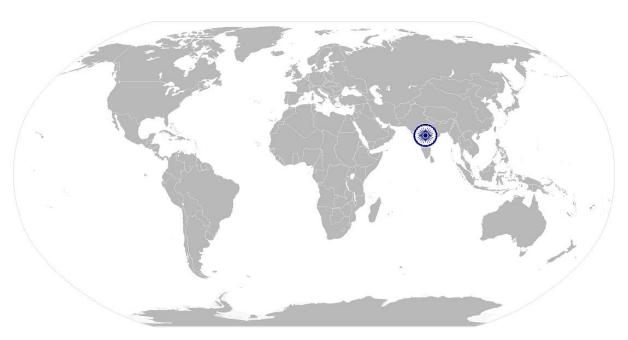






Develop data integrations as per specifications

National Occupational Standard



Overview

This unit is about developing integrations for data transformation for internal and external clients.



National Occupational Standards





SSC/N8112 Develop data integrations as per specifications

Unit Code	SSC/N8112
Unit Title (Task)	Develop data integrations as per specifications
Description	This unit is about developing integrations for ensuring data availability for analytical or operational uses.
NSQF Level	7
Scope	This unit/task covers the following: • Define requirements • Develop data warehouses, data lakes & pipelines Integrations: data pipelines, data warehouses, data lakes

Performance Criteria (PC) w.r.t. the Scope

Element	Performance Criteria
Define	To be competent, the user/individual on the job must be able to:
requirements	
	PC1. evaluate whether the application is batch or real-time driven
	PC2. evaluate whether the application is using an SQL or NoSQL database
	PC3. evaluate feasibility and level of effort to integrate the required data
Develop data	To be competent, the user/individual on the job must be able to:
warehouses, data	
lakes and	PC4. evaluate different data warehouse, lake or pipeline designs
pipelines	PC5. evaluate available hardware if an on-premise solution is being designed
	PC6. determine the right data format depending on the nature of the
	application (for ex. batch or real-time driven)
	PC7. partition or size the data as appropriate
	PC8. transform data into other formats
	PC9. develop, test and troubleshoot data pipelines
	PC10. combine tools into either macro or micro data pipelines
	PC11. design and implement ETL (Extract-Transform-Load) processes
	PC12. use data integration processes to populate and refresh the data warehouse
	PC13. define data onboarding and transformation processes to design the data lake
	PC14. create and execute proof-of-concepts for demonstrating the viability of the design approach for the data lake
	PC15. select appropriate applications to design and scale the data lake as per requirements
	PC16. develop the data lake and define appropriate mechanisms to query the data lake









SSC/N8112	Develop data integrations as per specifications
	PC17. load data, metadata and other required categories into the data lake
	PC18. develop mechanisms for error and fault handling, and system
	availability for the data lake
	PC19. define performance criteria for the data integrations such as response
	time
	PC20. optimize the data integrations on the basis of the defined performance
	criteria
	PC21. create documentation on developed data integrations for appropriate
	people
	PC22. validate data integrations with appropriate people
Knowledge and U	Inderstanding (K)
A. Organizational	The user/individual on the job needs to know and understand:
Context	
(Knowledge of	KA1. organizational policies, procedures and guidelines which relate to
the company/	designing data integrations
organization	KA2. organizational policies and procedures for sharing data
and its	KA3. organizational policies and procedures for documenting data
processes)	integrations
	KA4. who to involve when designing data in tegrations
	KA5. the range of standard templates and tools available and how to use
	them
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. different tools for developing data integrations such as Hive, Storm,
	Kafka
	KB2. different data sources, data integration processes and techniques
	KB3. different ETL (Extract-Transform-Load) concepts
	KB4. different methodological approaches for testing and troubleshooting
	data pipelines such as unit testing, component testing, black box testing
	KB5. different methodological approaches for populating data warehouses
	including top-down, bottom-up, hybrid and federated
	KB6. different applications used to design data lakes
	KB7. how to define mechanisms to query the data lake
	KB8. how to load data, metadata and other required categories into the data
	lake
	KB9. different mechanisms for management of data lakes including error and
	fault handling, system availability, duplication control, status updates
	KB10. different performance criteria for data integrations such as response
	time









SSC/N8112	Develop data integrations as per specifications

33C/ NOT12	Develop data integrations as per specifications
	KB11. different performance criteria for hardware if designing an on-premise
	data integration solution such as data center performance, CPU
	performance, I/O ratios
	KB12. how to query and write scripts to acquire and understand the data
	KB13. how to work on various operating systems such as linux, ubuntu, or
	windows
Skills (S)	
A. Core / Generic	Problem Solving
Skills	The user/individual on the job needs to know and understand how to:
	SA1. apply problem-solving approaches in different situations
	Critical Thinking
	The user/individual on the job needs to know and understand how to:
	SA2. apply balanced judgments to different situations











Develop data integrations as per specifications

NOS Version Control

NOS Code		SSC/N8112	
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	29/08/2018
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019





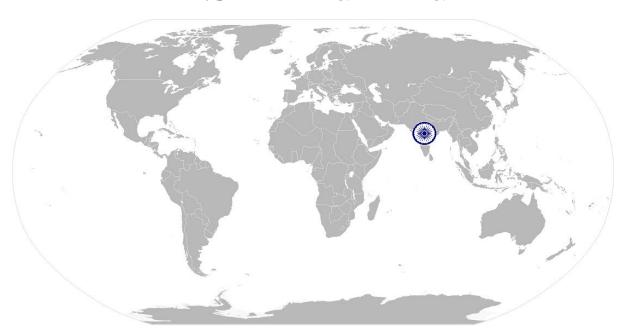






Manage your work to meet requirements

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	ivianage your work to meet requirements
Unit Code	SSC/N9001
Unit Title	Manage your work to meet requirements
(Task)	
Description	This unit is about planning and organizing your work in order to complete it to
	the required standards on time.
NSQF Level	6
Scope	This unit/task covers the following:
	Utilize resources
	Ensure compliance
	Work requirements:
	activities, deliverables, quantity, standards, timing
	Resources:
	equipment, materials, information
	ria (PC) w.r.t. the Scope
Element	Performance Criteria
Utilize resources	To be competent, the individual working on the job 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
Ensure	To be competent, the individual working on the job must be able to:
compliance	
	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
- Karalala a ali	PC9. ensure your work meets the agreed requirements
	Jnderstanding (K)
A. Organizational Context	You need to know and understand:
	KA1. your organization's policies, procedures and priorities for your area of
(Knowledge of the company/	work and your role and responsibilities in carrying out your work
organization	KA2. limits of your responsibilities and when to involve others
and its	KA3. your specific work requirements and who these must be agreed with
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	
	KB4. how to store and retrieve information	
	KB5. how to identify and refer anomalies in data	
	KB6. how to use information technology effectively to input and/or extract	
	data accurately	
	KB7. how to keep up to date with changes, procedures and practices in your	
	role	
Skills (S)		
A. Core / Generic	Writing Skills	
Skills	SA1. complete accurate well written work with attention to detail	
	Reading Skills	
	SA2. follow instructions, guidelines, procedures, rules and service level	
	agreements	
	agreements	
	Listening and Speaking Skills	
	SA3. ask for clarification and advice from appropriate people	
	SA4. listen effectively and orally communicate information accurately	
	Decision Making	
	SA5. make decisions on suitable courses	
	SAS. Make decisions on suitable courses	
	Plan and Organize	
	SA6. plan and organize your own work to achieve targets and deadlines	
	SA7. provide accurate reports to line managers in a timely manner as	
	required	
	Cuctomor Contricity	
	Customer Centricity	









Manage your work to meet requirements

- SA8. check that your own and/or your peers' work meets customer requirements
- SA9. deliver consistent and reliable service to customers

Problem Solving

- SA10. refer anomalies to the supervisor
- SA11. seek clarification on problems from others

Analytical Thinking

- SA12. analyze data and activities
- SA13. pass on relevant information to others

Critical Thinking

SA14. apply balanced judgments to different situations

Attention to Detail

- SA15. check your work is complete and free from errors
- SA16. get your work checked by others

Team Working

SA17. work effectively in a team environment









Manage your work to meet requirements

NOS Version Control

NOS Code	SSC/N9001		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	29/08/2018
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019











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

SS	C/N9002	Work effectively with colleagues
	Jnit Code	SSC/N9002
	Jnit Title Task)	Work effectively with colleagues
ı	Description	This unit is about working effectively with colleagues, either in your own work group or in other work groups within your organization.
ı	NSQF Level	6
•	Scope	This unit/task covers the following: Communicate with colleagues Show respect
		Communicate: face-to-face, by telephone, in writing
	Performance Criteri	a (PC) w.r.t. the Scope
Ī	Element	Performance Criteria
	Communicate with colleagues	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
3	Show respect	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 U	
	Context (Knowledge of the company/ organization and its	You need to know and understand: KA1. your organization's policies and procedures for working with colleagues and your role and responsibilities in relation to this KA2. the importance of effective communication and establishing good working relationships with colleagues
	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









SSC/N9002	Work effectively 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 Knowledge	You need to know and understand: 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 KB3. how to identify and refer anomalies in data KB4. how to help reach agreements with colleagues KB5. how to keep up to date with changes, procedures and practices in your
Skills (S)	role
A. Core / Generic Skills	Writing Skills: SA1. complete accurate well written work with attention to detail SA2. communicate effectively with colleagues in writing Reading Skills: SA3. follow instructions, guidelines, procedures, rules and service level agreements Listening and Speaking Skills SA4. ask for clarification and advice from appropriate people SA5. listen effectively and orally communicate information accurately
	Decision Making SA6. make decisions on suitable courses Plan and Organize SA7. plan and organize your own work to achieve targets and deadlines Customer Centricity SA8. check that your own and/or your peers' work meets customer requirements SA9. deliver consistent and reliable service to customers Problem Solving SA10. apply problem solving approaches in different situations









Work effectively with colleagues

Critical Thinking

SA11. apply balanced judgments to different situations

Attention to Detail

SA12. check your work is complete and free from errors

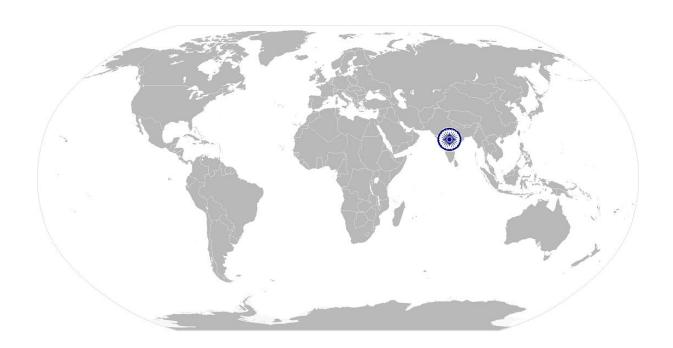
SA13. get your work checked by others

Team Working

SA14. work effectively in a team environment

SA15. work effectively with colleagues and other teams

SA16. treat other cultures with respect







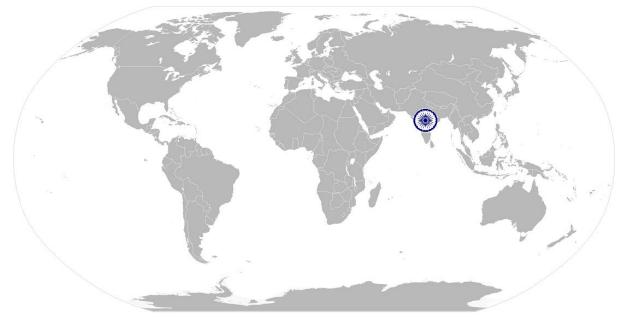




Work effectively with colleagues

NOS Version Control

NOS Code	SSC/N9002		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	29/08/2018
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019





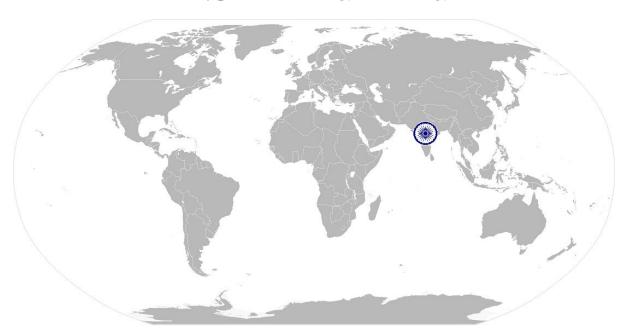






Provide data / information in standard formats

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	Provide data/information in standard formats	
(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.	
NSQF Level	6	
Scope	This unit/task covers the following:	
	Obtain information	
	Analyze and report information	
	Data/Information:	
	quantitative, qualitative	
	Sources:	
	within your organization, outside your organization	
	Formats:	
Daufaumanaa Cuitaui	paper-based, electronic	
	a (PC) w.r.t. the Scope	
Element	Performance Criteria	
Obtain To be competent, the individual working on the job must be able to: information		
Illioilliation	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	
Analyze and	To be competent, the individual working on the job must be able to:	
report		
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 Understanding (K)		
		A. Organizational









SSC/N9004 Provide data / information in standard formats

SSC/N9004	Provide data / information in standard formats		
Context			
(Knowledge of	KA1. your organization's procedures and guidelines for providing		
the company/	data/information in standard formats and your role and		
organization	responsibilities in relation to this		
and its	KA2. the knowledge management culture of your organization		
processes)	KA3. your organization's policies and procedures for recording and sharing		
	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	To allow and an account.		
omeage	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 these		
	KB4. how to carry out rule-based analysis on the data/information		
	KB5. typical anomalies that may occur in data/information		
	KB6. who to go to in the event of inaccurate data/information and how to		
	report this		
	KB7. how to use information technology effectively to input and/or extract		
	data accurately		
	KB8. how to validate and update data		
	KB9. how to identify and refer anomalies in data		
	KB10. how to store and retrieve information		
	KB11. how to share information using standard formats and templates		
	KB12. how to keep up to date with changes, procedures and practices in your		
	role		
Skills (S)			







Provide data / information in standard formats

SC/N9004	Provide data / information in standard formats
A. Core / Generic	
Skills	Writing Skills
	SA1. complete accurate well written work with attention to detail
	Reading Skills
	SA2. follow instructions, guidelines, procedures, rules and service level
	agreements
	Listening and Speaking Skills
	SA3. listen effectively and orally communicate information accurately
	Decision Making
	SA4. follow rule-based decision making processes
	SA5. make decisions on suitable courses
	Plan and Organize
	SA6. plan and organize your own work to achieve targets and deadlines
Customer Centricity	
	SA7. check that your own and/or your peers' work meets customer
	requirements
	SA8. meet and exceed customer expectations
	Problem Solving
	SA9. apply problem solving approaches in different situations
	SAS. apply problem solving approaches in different situations
	Analytical Thinking
	SA10. configure data and disseminate relevant information to others
	Critical Thinking
	SA11. apply balanced judgments to different situations
	Attention to Detail
	SA12. check your work is complete and free from errors
	SA13. get your work checked by others
	5/113. get your work enceked by others
	Team Working
	SA14. work effectively in a team environment





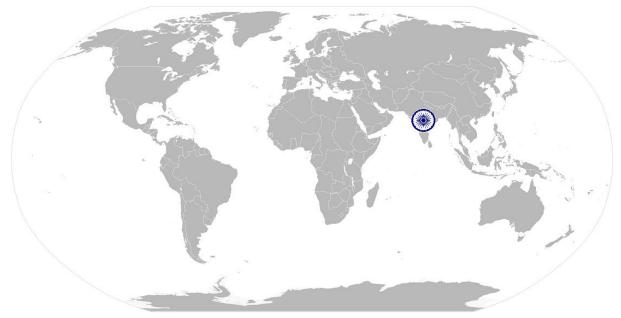




Provide data / information in standard formats

NOS Version Control

NOS Code	SSC/N9004		
Credits (NSQF)	TBD	Version number	1.0
Industry	IT-ITeS	Drafted on	29/08/2018
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019





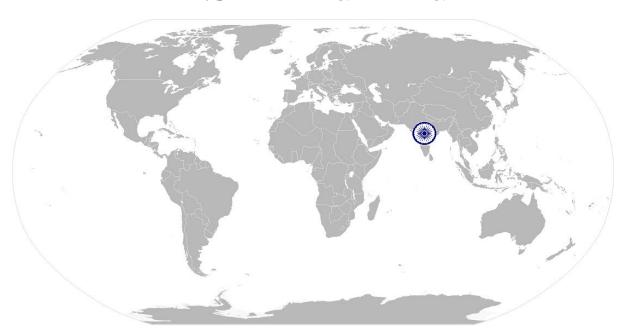






Develop your knowledge, skills and competence

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.



National Occupational Standards





SSC/N9005 Develop your knowledge, skills and competence

S	SC/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.		
	NSQF Level	6		
	Scope	This unit/task covers the following:		
		Develop knowledge		
		Apply knowledge		
		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:		
		undertaking further learning and development activities, finding further		
		opportunities to apply your knowledge and skills		
	Performance Criteri	a (PC) w.r.t. the Scope		
	Element	Performance Criteria		
	Develop	To be competent, the individual working on the job must be able to:		
	knowledge			
		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		
	Apply knowledge	To be competent, the individual working on the job must be able to:		
		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		









SSC/N9005 Develop your knowledge, skills and competence

	PC8. review your knowledge, skills and competence regularly and take		
	appropriate action		
Knowledge and Understanding (K)			
A. Organizational You need to know and understand:			
Context			
(Knowledge of	KA1. your organization's procedures and guidelines for developing your		
the company/	knowledge, skills and competence and your role and responsibilities in		
organization	relation to this		
and its	KA2. the importance of developing your knowledge, skills and competence		
processes)	to you and your organization		
	KA3. different methods used by your organization to review skills and		
	knowledge including: 2 training need analysis 2 skills need analysis 2 performance appraisals		
	KA4. how to review your knowledge and skills against your job role using		
	different 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, 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		
	learning 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 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 to apply these in the work environment or on samples.		
	KB6. how to explore sample problems and apply solutions		
	KB7. how to use information technology effectively to input and/or extract		
	data accurately		









•	STATE OF THE STATE
SSC/N9005	Develop your knowledge, skills and competence
	KB8. how to agree objectives and work requirements
	KB9. how to keep up to date with changes, procedures and practices in your
	role
01.111(0)	
Skills (S)	
A. Core / Generic	Writing Skills
Skills	SA1. complete accurate well written work with attention to detail
	Reading Skills
	SA2. follow instructions, guidelines, procedures, rules and service level
	agreements
	Listening and Speaking Skills
	SA3. ask for clarification and advice from line managers
	Decision Making
	SA4. make decisions on suitable courses
	Plan and Organize
	SA5. plan and organize your own work to achieve targets and deadlines
	Customer Centricity
	SA6. check that your own and/or your peers' work meets customer
	requirements
	Problem Solving
	SA7. refer anomalies to the line manager
	Analytical Thinking
	SA8. analyze data and activities
	Critical Thinking
	SA9. apply balanced judgments to different situations
	3A3. apply balanced judgments to unierent situations
	Attention to Detail
	SA10. check your work is complete and free from errors
	SA11. get your work checked by others
	Team Working
	SA12. work effectively in a team environment





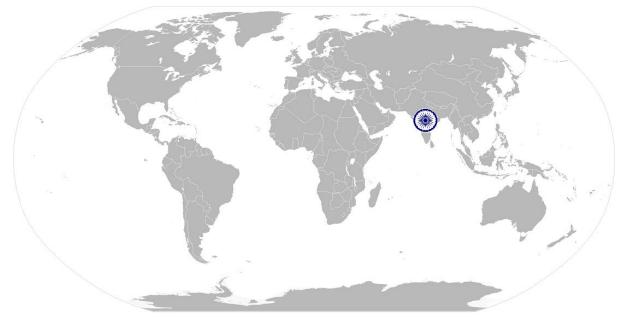




Develop your knowledge, skills and competence

NOS Version Control

NOS Code	SSC/N9005				
Credits (NSQF)	TBD Version number 1.0				
Industry	IT-ITeS	29/08/2018			
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018		
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019		





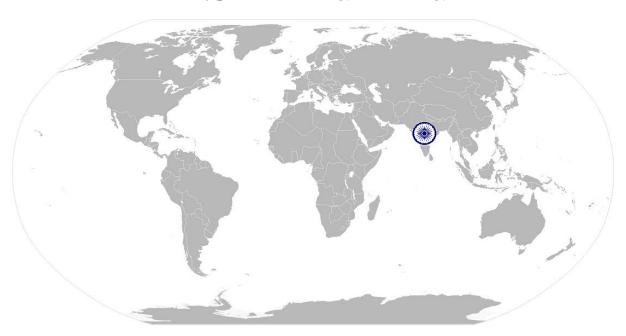






Build and maintain relationships at the workplace

National Occupational Standard



Overview

This unit is about building and maintaining constructive relationships at the workplace.



National Occupational Standards





SSC/N9006 Build and maintain relationships at the workplace

330/119000	Build and maintain relationships at the workplace
Unit Code	SSC/N9006
Unit Title	Build and maintain relationships at the workplace
(Task)	build and maintain relationships at the workplace
Description	This unit is about building and maintaining constructive relationships at the
	workplace.
NSQF Level	6
Scope	This unit/task covers the following:
	Build relationships
	Maintain relationships
	Range: Appropriate people such as line manager, members of the team /
	department, members from other teams / departments
Performance Criteri	a (PC) w.r.t. the Scope
Element	Performance Criteria
Build	To be competent, the user/individual on the job must be able to:
relationships	
	PC1. build rapport with appropriate people at the workplace
	PC2. develop new professional relationships
	PC3. build alliances to establish mutually beneficial working arrangements
	PC4. foster an environment where others feel respected
	PC5. identify and engage a diverse range of influential contacts
Maintain	To be competent, the user/individual on the job must be able to:
relationships	
•	PC6. obtain guidance from appropriate people, where necessary
	PC7. attentively listen to ideas and give constructive feedback
	PC8. promptly resolve conflicts between team members
	PC9. work with colleagues to deliver shared goals
	PC10. recognize the contributions made by your colleagues
Knowledge and U	
A. Organizational	The user/individual on the job needs to know and understand:
Context	
(Knowledge of	KA1. organizational policies and procedures for building relationships and
the company/	their role and responsibilities in relation to this
organization	KA2. different training programs to enable the development of relevant
and its	behavioural competencies
processes)	
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. the importance of creating an environment of trust and mutual respect
	in the organisation









SSC/N9006 Build and maintain relation	ionships at the workplace
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300, 113000	Band and manical relationships at the Workplace			
	KB2. the importance of effective communication in developing productive working relationships with colleagues			
	KB3. different types of information that colleagues might need and the			
	importance of providing this information when it is required			
Skills (S)				
A. Core / Generic	Listening and Speaking Skills			
Skills	The user/individual on the job needs to know and understand how to:			
	SA1. ask for clarification and advice from line managers			
	Team Working			
	The user/individual on the job needs to know and understand how to:			
	SA2. work effectively in a team environment			







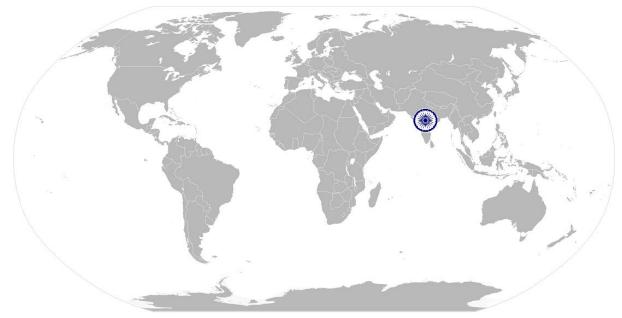




Build and maintain relationships at the workplace

NOS Version Control

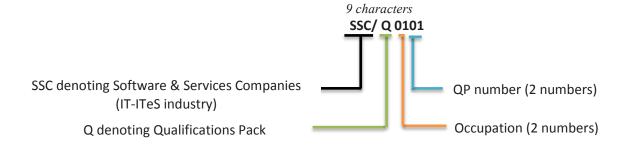
NOS Code	SSC/N9006					
Credits (NSQF)	TBD Version number 1.0					
Industry	IT-ITeS	29/08/2018				
Industry Sub-sector	Future Skills	Last reviewed on	17/10/2018			
Occupation	Artificial Intelligence & Big Data Analytics	Next review date	31/12/2019			



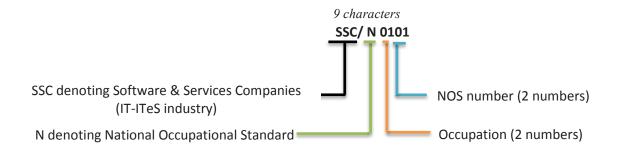
Annexure

Nomenclature for QP and NOS

Qualifications Pack



National Occupational Standard











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

Sequence	Description	Example
Three letters	Industry name (Software & Services Companies)	SSC
Slash	/	/
Next letter	Whether QP or NOS	N
Next two numbers	Occupation code	01
Next two numbers	OS number	01







Criteria For Assessment Of Trainees

<u>Job Role</u> AI - Data Engineer <u>Qualification Pack</u> SSC/Q8106

Sector Skill Council IT-ITeS

Guidelines for Assessment

- 1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
- 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
- 3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.
- 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
- 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
- 6. To pass a QP, a trainee should score an average of 70% across generic NOS' and a minimum of 70% for each technical NOS.
- 7. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS					Adamia Alla satian	
Total Marks: 600					Marks Allocation	
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical	
1. SSC/N8112 Develop data integrations as per specifications	PC1. evaluate whether the application is batch or real-time driven	ΣΓ	3	0	3	
	PC2. evaluate whether the application is using an SQL or NoSQL database		3	0	3	
	PC3. evaluate feasibility and level of effort to integrate data	100	5	2	3	
	PC4. evaluate different data warehouse, lake or pipeline designs	100	5	2	3	
	PC5. evaluate available hardware if an on-premise solution is being designed		5	2	3	
	PC6. determine the right data format depending on whether the application is batch or real-time driven		5	2	3	







	PC7. partition or size the data as		5	2	3
	PC8. transform data into other				
	formats		5	2	3
	PC9. develop, test and troubleshoot		_		_
	data pipelines		5	1	4
	PC10. combine tools into either		5	1	4
	macro or micro data pipelines		5	1	4
	PC11. design and implement ETL		5	1	4
	(Extract-Transform-Load) processes		3	1	4
	PC12. use data integration processes				
	to populate and refresh the data		5	1	4
	warehouse				
	PC13. define data onboarding and				
	transformation processes to design		5	1	4
	the data lake				
	PC14. create and execute proof-of-				
	concepts for demonstrating the		5	2	3
	viability of the design approach for				
	the data lake				
	PC15. select appropriate applications		_		
	to design and scale the data lake as		5	1	4
	per requirements				
	PC16. develop the data lake and		5	2	3
	define appropriate mechanisms to query the data lake		5	2	3
	PC17. load data, metadata and other				
	required categories into the data		5	1	4
	lake			_	_
	PC18. develop mechanisms for error				
	and fault handling, and system		5	1	4
	availability for the data lake				
	PC19. define performance criteria				
	for the data integrations such as		5	2	3
	response time				
	PC20. optimize the data integrations				
	on the basis of the defined		5	2	3
	performance criteria				
	PC21. create documentation on				
	developed data integrations for		2	0	2
	appropriate people				
	PC22. validate data integrations with		2	0	2
	appropriate people			_	=
	Total		100	28	72
2. SSC/N9001	PC1. establish and agree your work		6.25	0	6.25
Manage your	requirements with appropriate				
work to meet	people				
requirements		100			
	PC2. keep your immediate work area	100	12.5	6.25	6.25
	clean and tidy			_	_
	PC3. utilize your time effectively		12.5	6.25	6.25
	PC4. use resources correctly and		18.75	6.25	12.5
	efficiently				







	PC5. treat confidential information		6.25	0	6.25
	correctly				
	PC6. work in line with your		12.5	0	12.5
	organization's policies and				
	procedures				
	PC7. work within the limits of your		6.25	0	6.25
	job role				
	PC8. obtain guidance from		6.25	0	6.25
	appropriate people, where				
	necessary				
	PC9. ensure your work meets the		18.75	6.25	12.5
	agreed requirements				
	Total		100	25	75
3. SSC/N9002	PC1. communicate with colleagues				
Work effectively	clearly, concisely and accurately		20	0	20
with colleagues					
	PC2. work with colleagues to				
	integrate your work effectively with		10	0	10
	them				
	PC3. pass on essential information to				
	colleagues in line with organizational		10	10	0
	requirements				
	PC4. work in ways that show respect	100	20	0	20
	for colleagues		20	· ·	20
	PC5. carry out commitments you		10	0	10
	have made to colleagues		10	· ·	10
	PC6. let colleagues know in good				
	time if you cannot carry out your		10	10	0
	commitments, explaining the			10	ŭ
	reasons				
	PC7. identify any problems you have				
	working with colleagues and take		10	0	10
	the initiative to solve these problems				
	PC8. follow the organization's				
	policies and procedures for working		10	0	10
	with colleagues				
	Total		100	20	80
4. SSC/N9004	PC1. establish and agree with				
Provide	appropriate people the				
data/information	data/information you need to		12.5	12.5	0
in standard	provide, the formats in which you		12.3	12.3	Ü
formats	need to provide it, and when you				
	need to provide it				
	PC2. obtain the data/information		12.5	0	12.5
	from reliable sources	100			
	PC3. check that the	_30			
	data/information is accurate,		12.5	6.25	6.25
	complete and up-to-date				
	PC4. obtain advice or guidance from		6.25		c 2=
	appropriate people where there are		6.25	0	6.25
	problems with the data/information				
	PC5. carry out rule-based analysis of		25	0	25
	the data/information, if required				







P.C. 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 Total 100 25 75 5. SSC/N9005 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 activities to address your 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 action Total 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100		DCC in south a data /info month in into				
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PC4. foster an environment where others feel respected		10	4	6
PC5. identify and engage a diverse range of influential contacts		10	4	6
PC6. obtain guidance from appropriate people, wherever necessary	10	3	7	
PC7. attentively listen to ideas and give constructive feedback		10	3	7
PC8. promptly resolve conflicts between self or others		10	2	8
PC9. work with colleagues to deliver shared goals		10	2	8
PC10. recognize the contributions made by your colleagues		10	3	7
Total		100	30	70