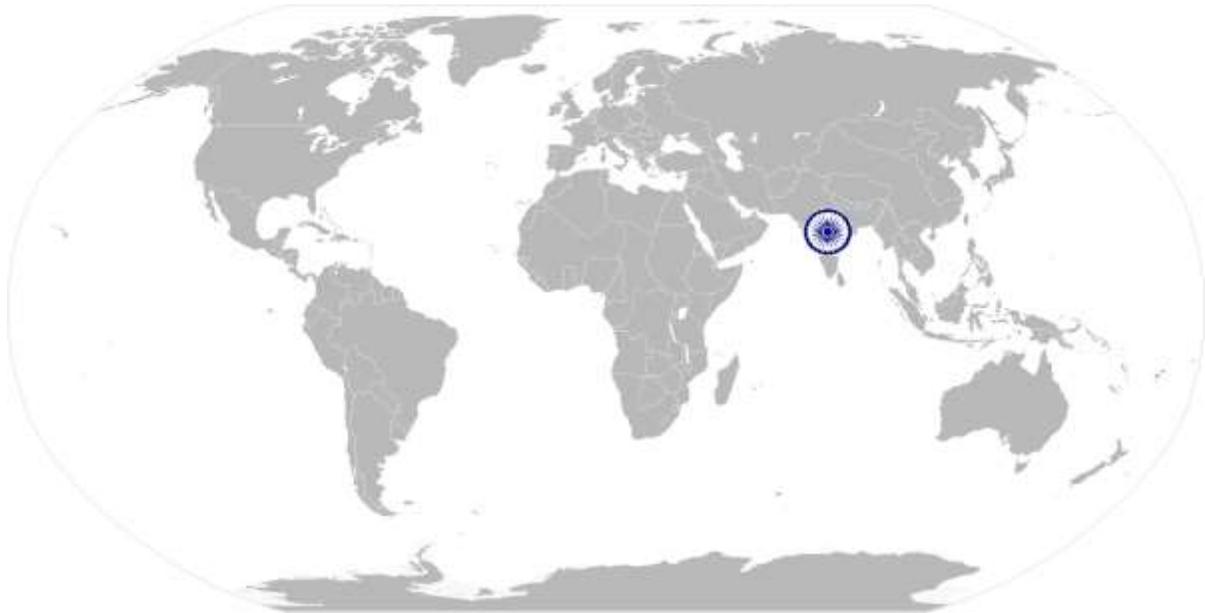


National Occupational Standard



Overview

This unit is about collating and analyzing data, usually big data, from multiple disparate sources.

SSC/ N 2102

Analyze data from multiple disparate sources

Applicable NOS Unit

Unit Code	SSC/ N 2102
Unit Title (Task)	Analyze data from multiple disparate sources
Description	This unit is about collating, managing and analyzing data, usually big data, from multiple disparate sources.
Scope	<p>This unit/task covers the following:</p> <p>Appropriate people:</p> <ul style="list-style-type: none"> • line manager • subject matter experts • client <p>Data sources:</p> <ul style="list-style-type: none"> • secondary data • research reports • organizational databases • online data sources <p>Data:</p> <ul style="list-style-type: none"> • big data • quantitative data • qualitative data
Performance Criteria (PC) w.r.t. the Scope	
	<p>To be competent, you must be able to:</p> <p>PC1. establish clearly the objectives and scope of the analysis</p> <p>PC2. access your organization's knowledge base for relevant data sources and methodological approaches</p> <p>PC3. obtain guidance from appropriate people to identify suitable data sources</p> <p>PC4. collate data from multiple data sources using appropriate software tools</p> <p>PC5. clean data and make it ready for analysis using appropriate software tools</p> <p>PC6. obtain guidance from appropriate people to agree the analysis to be performed on the data</p> <p>PC7. conduct agreed analysis on the data</p> <p>PC8. draw justifiable inferences from your analysis</p> <p>PC9. present results and inferences from your analysis using standard templates and tools</p> <p>PC10. obtain advice and guidance from appropriate people on issues with data analysis outside your area of competence or experience</p> <p>PC11. review the results of your analysis with appropriate people</p> <p>PC12. undertake modifications to your analysis based on inputs from appropriate people</p>

SSC/ N 2102

Analyze data from multiple disparate sources

	PC13. comply with your organization's policies, procedures and guidelines when analyzing data from multiple disparate sources
Knowledge and Understanding (K)	
A. Organizational Context (Knowledge of the company/ organization and its processes)	<p>You need to know and understand:</p> <p>KA1. your organization's policies, procedures and guidelines for analyzing data from multiple disparate sources and your role in applying these</p> <p>KA2. your organization's knowledge base and how to access this</p> <p>KA3. who to involve when identifying data sources, agreeing approaches and analyzing data</p> <p>KA4. how to obtain and use feedback from others to improve your data analysis</p> <p>KA5. limits of your experience and competence and where to obtain advice and guidance</p> <p>KA6. methods and techniques used when working with others</p> <p>KA7. standard tools and templates available and how to use them</p> <p>KA8. the importance of checking and cleaning data/information before use</p> <p>KA9. how to apply different analysis to data</p> <p>KA10. the importance of providing rationale for inferences</p>
B. Technical Knowledge	<p>You need to know and understand:</p> <p>KB1. the objectives and scope of the analysis being undertaken and the importance of keeping within these boundaries</p> <p>KB2. different data sources and how to obtain information from them, including:</p> <ul style="list-style-type: none"> • organizational databases • online data sources • research reports • secondary data <p>KB3. data warehouse software for integrating data from disparate sources and how to use these</p> <p>KB4. tools, platforms and architecture available for handling big data and how to access and apply these</p> <p>KB5. software tools for collating and cleaning data and how to use these</p> <p>KB6. different types of data analysis and associated outcomes available</p> <p>KB7. how to draw inferences from analysis of data/information</p> <p>KB8. methods and tools to validate your analysis and how to apply these</p> <p>KB9. how to present analysis and inferences in a structured way</p> <p>KB10. current practice in data analysis</p>
Skills (S)	
A. Core Skills/	Writing Skills
	You need to know and understand how to:

SSC/ N 2102

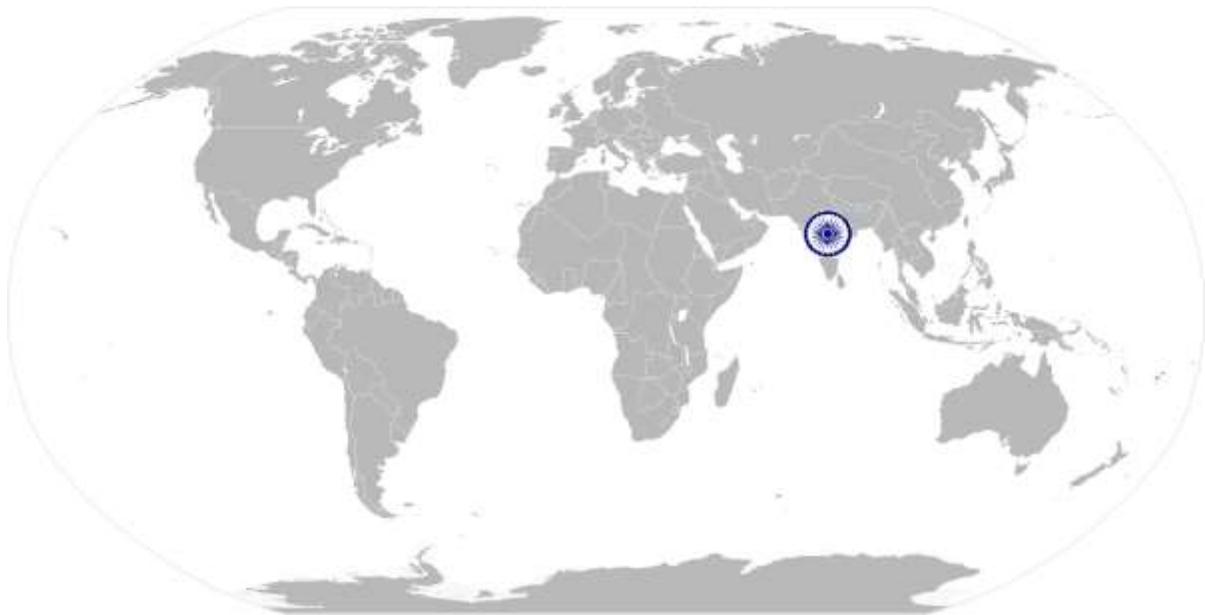
Analyze data from multiple disparate sources

Generic Skills	SA1. complete accurate well written work with attention to detail
	SA2. communicate with others 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)
B. Professional Skills	You need to know and understand how to: SA4. listen effectively and orally communicate information accurately SA5. ask for clarification and advice from others
	Decision Making
	You need to know and understand how to: SB1. follow rule-based decision-making processes SB2. identify anomalies in data SB3. make decisions on suitable courses of action
	Plan and Organize
	You need to know and understand how to: SB4. plan and organize your work to achieve targets and deadlines
	Customer Centricity
	You need to know and understand how to: SB5. check your own work meets customer requirements SB6. work effectively in a customer facing environment
	Problem Solving
	You need to know and understand how to: SB7. apply problem-solving approaches in different situations SB8. seek clarification on problems from others
	Analytical Thinking
	You need to know and understand how to: SB9. analyze data and activities SB10. configure data and disseminate relevant information to others SB11. pass on relevant information to others
	Critical Thinking
	You need to know and understand how to: SB12. apply balanced judgments to different situations SB13. provide opinions on work in a detailed and constructive way
	C. Technical Skills

SSC/ N 2102

Analyze data from multiple disparate sources

	<p>SC4. present big data in ways that support understanding of the data and inferences</p> <p>SC5. use software packages and tools specific to your field of expertise</p> <p>SC6. keep up to date with changes, procedures and practices in your field of expertise</p>
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SSC/ N 2102

Analyze data from multiple disparate sources

NOS Version Control

NOS Code	SSC/ N 2102		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]		Version number	0.1
Industry	IT-ITeS	Drafted on	30/04/2013
Industry Sub-sector	IT Services	Last reviewed on	31/03/2018
		Next review date	31/03/2019

