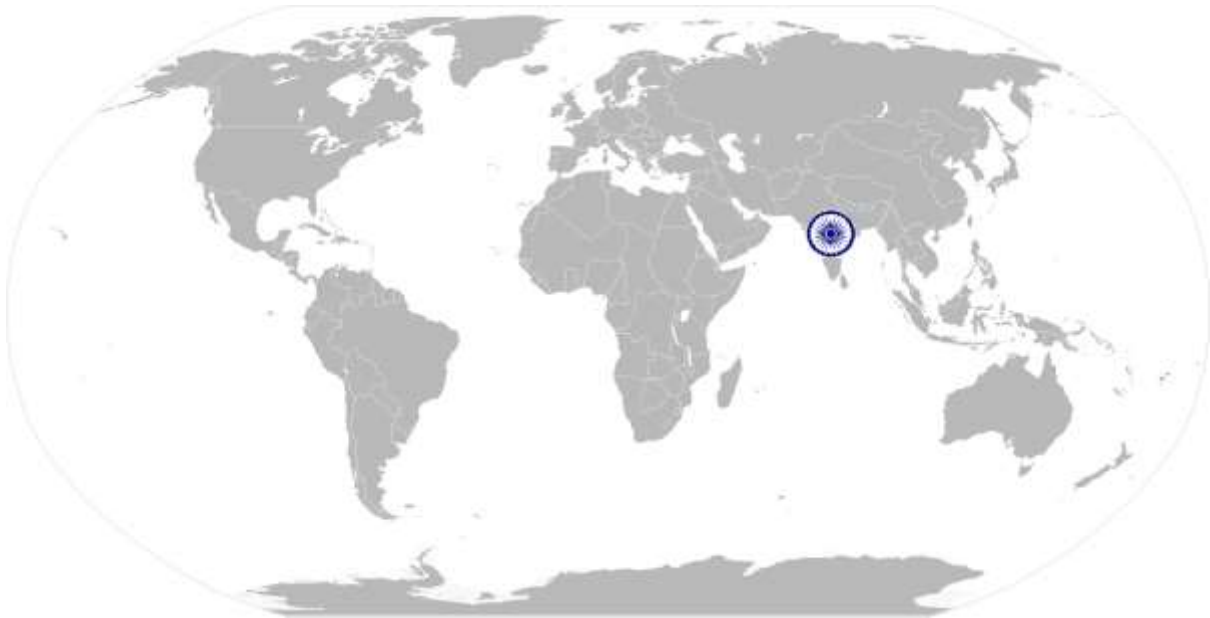


National Occupational Standard



Overview

This unit is about contributing to the design of software products and applications where both the business impact and technical complexity are low.

SSC/ N 0501

Contribute to the design of software products and applications

Applicable NOS Unit

Unit Code	SSC/ N 0501
Unit Title (Task)	Contribute to the design of software products and applications
Description	This unit is about contributing to the design of software products and applications where both the business impact and technical complexity are low.
Scope	<p>This unit/task covers the following:</p> <p>Appropriate people:</p> <ul style="list-style-type: none"> • line manager • peers • subject matter experts <p>Software Requirements Specification includes:</p> <ul style="list-style-type: none"> • functional requirements • non-functional requirements <p>High Level Design includes:</p> <ul style="list-style-type: none"> • technical solution selected and its rationale • assumptions • constraints • dependencies • interfaces <p>Requirements where:</p> <ul style="list-style-type: none"> • business impact is low • technical complexity is low
Performance Criteria (PC) w.r.t. the Scope	
	<p>To be competent, you must be able to:</p> <p>PC1. check your understanding of the Business Requirements Specification (BRS)/User Requirements Specification (URS) with appropriate people</p> <p>PC2. check your understanding of the Software Requirements Specification (SRS) with appropriate people</p> <p>PC3. check your understanding of High Level Design (HLD) with appropriate people</p> <p>PC4. design basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD</p> <p>PC5. review your designs with appropriate people</p> <p>PC6. analyze inputs from appropriate people to identify, resolve and record design defects and inform future designs</p> <p>PC7. document your designs using standard templates and tools</p> <p>PC8. comply with your organization's policies, procedures and guidelines when contributing to the design of software products and applications</p>

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Knowledge and Understanding (K)	
<p>A. Organizational Context (Knowledge of the company/ organization and its processes)</p>	<p>You need to know and understand:</p> <p>KA1. your organization’s policies, procedures and guidelines for designing software products and applications and your role and responsibilities in relation to this</p> <p>KA2. your organization’s knowledge base and how to access and update this</p> <p>KA3. the scope of work to be carried out and the importance of keeping within these boundaries</p> <p>KA4. who you may need to involve to provide feedback to your designs</p> <p>KA5. the importance of collating feedback on your designs</p> <p>KA6. how to analyze and use feedback to improve your designs</p> <p>KA7. who you may need to involve to provide feedback on your designs</p> <p>KA8. standard templates and tools available and how to use these to document your designs</p> <p>KA9. the approval process for designs of software products and applications</p>
<p>B. Technical Knowledge</p>	<p>You need to know and understand:</p> <p>KB1. how to interpret and follow different design specifications, including:</p> <ul style="list-style-type: none"> • Business Requirements Specification (BRS) • User Requirements Specification (URS) • Software Requirements Specification (SRS) • High Level Design (HLD) <p>KB2. how to design basic program structures</p> <p>KB3. how to design software products</p> <p>KB4. how to design software applications</p> <p>KB5. different sources of information for help to design software products and specifications</p> <p>KB6. the range of equipment used to design software products and applications</p> <p>KB7. common design defects and how to resolve these</p> <p>KB8. current practice in the infrastructure design of software products and applications</p> <p>KB9. the range of activities involved in designing different software products and applications</p> <p>KB10. how to test new products and applications are fit for purpose</p> <p>KB11. implications new products and applications may have on business processes and business infrastructure</p>
Skills (S)	
<p>A. Core Skills/ Generic Skills</p>	<p>Writing Skills</p>
	<p>You need to know and understand how to:</p> <p>SA1. communicate with colleagues in writing</p>

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	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
	Decision Making
B. Professional Skills	You need to know and understand how to: SB1. make decisions on suitable courses 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 your own work meets customer requirements SB4. meet and exceed customer expectations
	Problem Solving
	You need to know and understand how to: SB5. apply problem-solving approaches in different situations
	Analytical Thinking
	You need to know and understand how to: SB6. configure data and disseminate relevant information to others SB7. analyze data and activities
	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. agree objectives and work requirements SC3. keep up to date with changes, procedures and practices in your role

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NOS Version Control

NOS Code	SSC/ N 0501		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	20	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

