

	SKILLS FRAME	WORK FOR INFOCOMM TECHNOLOGY		
		S MAP – DEVOPS ENGINEER		
Sector	Infocomm Technology			
Track	Software and Applications			
Sub-track	Software Engineering			
Occupation	Software Engineer			
Job Role		DevOps Engineer		
Job Role Description	deployment and configuration activities builds the continuous integration the pipeline. He develops Proofthe development team, and development integrates code charapplication remains functional. He process, and manages the release He works with internal business and/or updating solutions, building operations, and triaging and fixing able to adjust to constant business proficient in programming language and deployment tools, relevant proficients in programming language and deployment tools, relevant proficients also knowledgeable of crypto. The DevOps Engineer is innovational skills to engage with the proof of the proof			
	Critical Work Functions	Key Tasks		
		Determine software application and feature enhancement requirements based on business needs and user feedback		
		Gather, analyse and document client needs and business requirements		
	Assess user needs and requirements	Draft technical and functional specifications		
		Formulate solutions, alternatives and design specifications that support business and technical objectives Analyse client operations to understand strengths and weaknesses to		
		Uncover opportunities for improvement Translate business and technical requirements to test cases, test scenarios		
Critical Work Functions and		and scripts Build IT solutions to meet business requirements and develops reusable components		
Key Tasks		Install and configure software solutions		
		Integrate solutions with other applications and platforms		
	Develop applications and tools for development teams	Develop program codes and logic for existing and/or new software applications and tools		
		Perform script maintenance and updates to accommodate changes in requirements and/or implementation		
	Build automation frameworks for the deployment, mana	Build automation frameworks for the deployment, management, and monitoring of software applications and features		
		Review software modules for quality assurance		
		Set up and maintain test environment for manual and automated testing		
		Determine specifications and features for the next iteration of application		
		development		



	Perform continuous integration of application features and enhancements Perform continuous deployment of enhanced applications	Automate security and risk management processes to enable continuous and consistent integration Deploy security algorithms, protocols and self-healing features into the system infrastructure to reduce security breaches Develop requirements, methods and procedures for routine maintenance Perform security vulnerability and relevant automated testing to ensure the software application remains functional Troubleshoot existing information systems to identify errors or deficiencies and develop solutions Build automated deployment using configuration management technology Deploy new modules, upgrades and fixes to the production environment Perform continuous monitoring of applications and its features Perform automated and/or load tests to address issues Evaluate existing applications and platforms and propose recommendations for improving performance by conducting gap analysis, identifying feasible			
				assisting in the scope of modifications anowledge transfer to production support	
	Technical Skills and Compete	encies		Generic Skills and Competend	cies
	Agile Coaching		Level 4	Computational Thinking	Advanced
	Agile Software Development		Level 3	Problem Solving	Advanced
	Applications Development		Level 4	Lifelong Learning	Intermediate
	Applications Integration		Level 4	Communication	Basic
	Applications Support and Enhancement		Level 3, Level 4	Teamwork	Intermediate
	Business Agility		Level 4		
	Business Environment Analysis	ss Environment Analysis			
	Business Needs Analysis		Level 4		
	Business Requirements Mappir	ng	Level 3		
	Business Risk Management		Level 3		
Skills and Competencies	Change Management		Level 4		
	Configuration Tracking		Level 3		
	Continuous Integration and Continuous Deployment		Level 3		
	Data Design		Level 4		
	Database Administration		Level 4		
	Emerging Technology Synthesis	S	Level 4		
	Network Configuration		Level 3		
	Performance Management		Level 4		
	Problem Management		Level 3		
	Project Management		Level 4		
	Quality Standards		Level 4		
	Security Administration		Level 3		



	Software Configuration	Level 4	
	Software Design	Level 4	
	Software Testing	Level 4	
	Stakeholder Management	Level 4	
	Systems Design	Level 4	
	System Integration	Level 4	
	Test Planning	Level 4	
	User Interface Design	Level 4	
Programme	For a list of Training Programmes ava	ailable for the ICT se	
Listing	framework/ict		

The information contained in this document serves as a guide.