

SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY SKILLS MAP - APPLICATIONS DEVELOPER					SKILLSfuture SG			
Sector	Infocomm Technology							
Track	Software and Applications							
Occupation	Software Developer/Application Programmer							
Job Role	Applications Developer							
Job Role Description	<p>The Applications Developer applies subject matter knowledge in applications development, possessing well-developed skills in design, development, testing, debugging and implementing software applications or specialised utility programs in support of end users' needs on platforms. He/She supports regular updates and recommends improvements to existing applications. He works under limited supervision to effectively deal with unfamiliar issues. He provides guidance and technical support to testing and quality assurance teams.</p> <p>He is a keen learner, and able to apply structured, analytical thinking to develop applications. He is a strong team player, who communicates his ideas and gets along with others easily.</p>							
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Key Tasks		Performance Expectations (For legislated / regulated occupations)				
	Identify requirements	Support discussions with stakeholders to understand business needs and user requirements						
		Support the requirements analysis						
		Support the formulation of specifications and definition of delivery platforms for applications						
		Support proposal writing for applications development						
	Develop applications	Support the development of the applications concept, interface design, and architecture						
		Support the development of program logic for new applications and features						
		Use prescribed guidelines or policies to analyse and resolve problems						
		Integrate applications with back-end databases						
	Implement applications	Support testing of the developed applications						
		Deploy applications according to specifications						
		Investigate issues and conduct root cause analysis						
		Apply bug-fixes						
		Document implementation procedures						
	Optimise applications	Collect user feedback and generate system report on applications performance						
		Support initiatives to improve functionality and process flow of applications						
		Support the analysis and modification of design logic in existing applications						
		Propose recommendations to improve applications performance						
		Support the integration of new products with existing applications to improve the functionality and/or design						
	Maintain applications	Support the maintenance and update of an existing applications						
		Support monitoring of compliance to security measures						
		Solve routine problems that occur within applications						
		Analyse applications usage reports						
		Document the application's technical architecture, code changes, issue resolutions and procedures						
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)					
	Applications Development	Level 3	Problem Solving	Basic				
	Applications Integration	Level 3	Teamwork	Basic				
	Applications Support and Enhancement	Level 2	Lifelong Learning	Intermediate				
	Business Needs Analysis	Level 2	Interpersonal Skills	Basic				
	Configuration Tracking	Level 2	Communication	Basic				
	Data Design	Level 3						
	Database Administration	Level 2						
	Emerging Technology Synthesis	Level 3						
	Programme Management	Level 3						
	Quality Standards	Level 4						
	Security Architecture	Level 3						
	Software Configuration	Level 2						
	Software Design	Level 3						
	Software Testing	Level 2						
	System Integration	Level 3						
	Test Planning	Level 2						
	User Interface Design	Level 3						
Programme Listing	For a list of Training Programmes available for the Infocomm Technology sector, please visit: www.skillsfuture.sg/skills-framework/ict							