SELF ASSESSMENT GUIDE

Units of Competency Covered: Design game program logic Apply object-oriented programming Apply programming skills for in-g Instruction: Read each of the questions in the left-hand column of the place a check in the appropriate box opposite each quanswer. Can I? DESIGN GAME PROGRAM LOGIC Formulate/design game program logic * Analyze game specifications Obtain, review and clarify design documentation Conceptualize game technical design Analyze game physics Identify and solve physics problems/equations based on GDD Apply differentiation based on GDD Illustrate program structures Identify and document special routines or procedures Identify resources for coding and testing of program Prepare concept arts for GUI * Validate technical game documentation * 						
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Validate technical game documentation *						
Check technical design document						
APPLY OBJECT-ORIENTED PROGRAMMING LANGUAGE	SKILLS					
Identify game/project coding standards						
Apply basic language syntax and layout*						

•	Use and customize appropriate language syntax for sequence, selection and iteration constructs		
•	Apply basic object-oriented principles in the target languages*		
•	Implement a class that contains primitive member/instance variables		
•	Implement a class that contains multiple options for object construction		
•	Enforce a class security using encapsulation		
•	Implement inheritance to at least two levels of depth		
•	Use polymorphism via inheritance to enable easy code extension		
•	Debug codes*		
•	Use integrated development environment		
•	Use a program debugging techniques to detect and resolve errors		
•	Follow guidelines for developing maintainable code		
•	Use and follow internal documentation standards		
•	Test codes*		
•	Develop and conduct simple tests to confirm the coding process		
•	Document activities		
AP	PLY PROGRAMMING SKILLS FOR IN-GAME APPLICA	ATION	
•	Obtain game mechanics by analyzing the GDD and TDD		
•	Analyze technical design document		
•	Derive technical storyboard and corresponding pseudo code from GDD and TDD		
•	Prepare game development environment *		
•	Set the necessary hardware/software to code, compile and run game development tools		
•	Apply basic language syntax and layout		
•	Use and customize appropriate language syntax for sequence, selection and iteration constructs		
•	Write code for game application*		
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•	Develop working prototype				
•	Identify game module per iteration				
•	Define and explain game loop				
•	Create and implement program code				
•	Use mathematical concepts and techniques in controlling and implementing game systems				
•	Use the style and design principles to solve common game programming problems				
•	Use and customize the data structures and algorithms to ensure robust and fast implementation of game systems				
•	Identify and apply appropriate design patterns in coming up with initial prototype				
•	Execute and test the game application*				
•	Check workability of the prototype				
•	Evaluate prototype based on GDD				
•	Apply prototype iteration based on evaluation results				
•	Implement iterative prototyping cycle until game final prototype is approved				
•	Refine/debug a system				
•	Assess game prototype to follow quality assurance/testing techniques				
•	Address and fix program errors				
•	Address overall game design concerns				
•	Optimize a game program based on project requirements				
I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.					
Can	didate's Name:	Date:			

Candidate's Name: NOTE: *Critical Aspects of Competency