

Assignment #4

Due Date: 11/4/18 by 11:59pm

Deliverable:

Post your homework as a SINGLE PDF file on Blackboard with the name "HW4_YourLastName_ FirstName"

Important Notes:

- Do NOT communicate or share your assignment with others
- Do NOT share your personal laptop with your classmates

Requirements:

Consider the data listed in the following matrix for a product of size 120KLOC:

1. Calculate the defect removal rate for every phase
2. Calculate the defect injection rate for every phase
3. Calculate the defect escape rate for every phase
4. Calculate the overall defect removal effectiveness.
5. Which phase is the most effective in removing defects? Explain.
6. Do you think reviews and inspections were effective? Explain.
7. If the number of defects originated in design phase increased by 10% and defects detected in design review increased by 10%, do you think that will have a positive or negative impact on the defect removal effectiveness in the coding phase? Explain your answer in detail (present data to support your answer).

Defect Origin									
Where Found		Requirement	Analysis	Design	Coding	Unit Testing	Integration Testing	System Testing	Field
	Requirement	49							
	Analysis	34	61						
	Design	67	34	123					
	Coding	13	23	77	241				
	Unit Testing	39	21	67	78	13			
	Integration Testing	23	4	3	98	-	9		
	System Testing	14	8	5	29	-	-	7	
	Field	7	5	4	6	-	-	-	8