

Software Testing

Lesson 8 Test Management – Test Planning

Quiz
V1.0

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Winter 2013 / 2014



1. Test Mgmt – Test Planning Tasks in Test Team

Which of the following best describes the task partition between test manager and tester?

- a) The test manager plans testing activities and chooses the standards to be followed, while the tester chooses the tools and controls to be used. ☐
- b) The test manager plans, organizes and controls the testing activities, while the tester specifies, automates and executes tests. ☐
- c) The test manager plans, monitors and controls the testing activities, while the tester designs tests. ☐
- d) The test manager plans and organizes the testing and specifies the test cases, while the tester prioritizes and executes the tests. ☐

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2. Test Mgmt – Test Planning Exit Criteria



Which of the following are typical test exit criteria?

- a) Thoroughness measures, reliability measures, test cost, schedule, state of defect correction and residual risks. ☐
- b) Thoroughness measures, reliability measures, degree of tester independence and product completeness. ☐
- c) Thoroughness measures, reliability measures, test cost, time to market and product completeness, availability of testable code. ☐
- d) Time to market, residual defects, tester qualification, degree of tester independence, thoroughness measures and test cost. ☐

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3. Test Mgmt – Test Planning Test Execution (1/2)



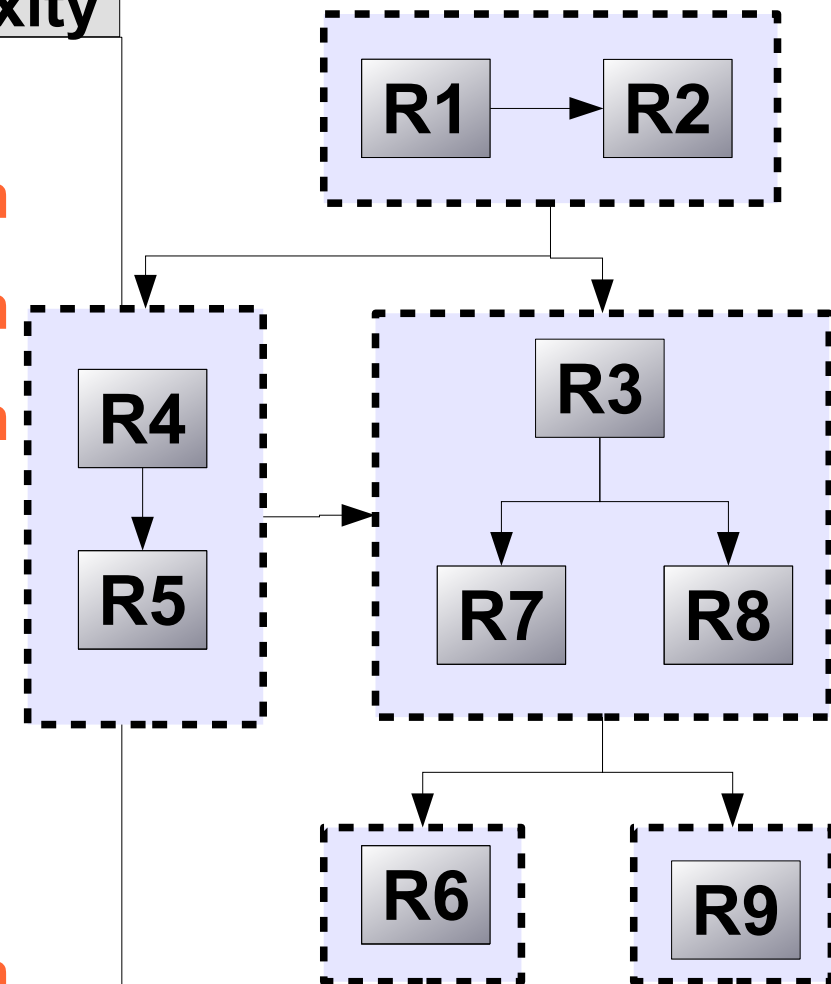
Logical dependencies:
A \rightarrow B means that
B is dependent on A

Requirements

No. – Headline

– Complexity

R1 – Process Anomalies	– High
R2 – Remote Services	– Medium
R3 – Synchronization	– Medium
R4 – Confirmation	– Medium
R5 – Process closures	– Low
R6 – Issues	– Low
R7 – Financial Data	– Low
R8 – Diagram Data	– Low
R9 – Changes on user profile	– Medium

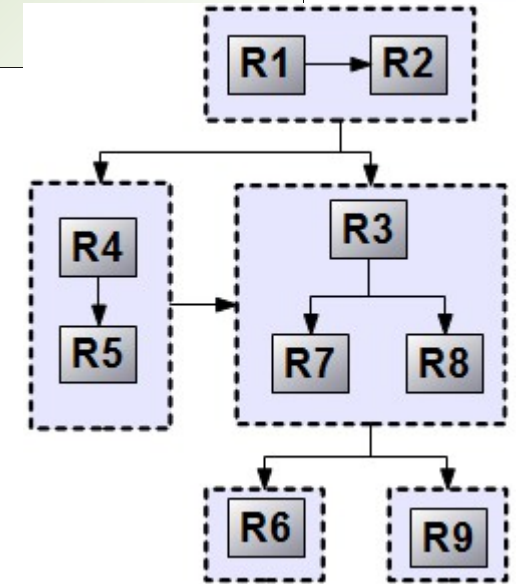


3. Test Mgmt – Test Planning Test Execution (2/2)

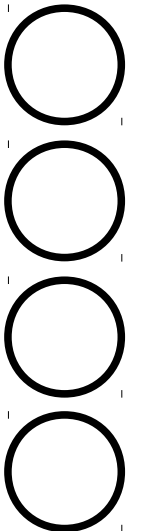


The described requirements have to be tested.

How would you structure the test execution schedule according to the requirement dependencies?



- a) R4 > R5 > R1 > R2 > R3 > R7 > R8 > R6 > R9.
- b) R1 > R2 > R3 > R4 > R5 > R7 > R8 > R6 > R9.
- c) R1 > R2 > R4 > R5 > R3 > R7 > R8 > R6 > R9.
- d) R1 > R2 > R3 > R7 > R8 > R4 > R5 > R6 > R9.



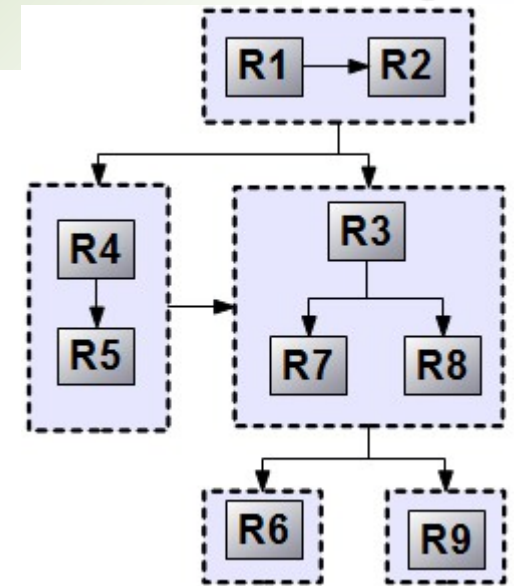
3. Test Mgmt – Test Planning

Test Execution

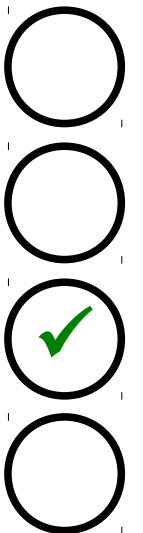


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4. Test Mgmt – Test Planning Test Manager



What of the following Test Manager should **NOT** do?

- a) report on deviations from the project plan ☐
- b) reallocate resources to meet original plans ☐
- c) raise incidents on faults that they have found ☐
- d) provide information for risk analysis and quality improvement ☐

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5. Test Mgmt – Test Planning Test Manager



What of the following is least important for a Test Manager?

a) Estimating test duration.

☐

b) Incident Management.

☐

c) Configuration Management.

☐

d) De-bugging.

☐

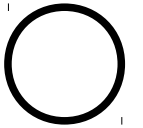
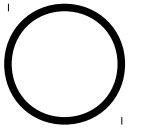
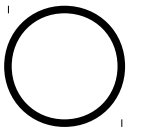
<http://www.istqbsamplepaper.n18.in>

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- c) Configuration Management.
- d) De-bugging.



6. Test Mgmt – Test Planning Test Manager



Which one is **NOT** the task of a Test Manager?

- a) Coordinate the test strategy and plan with project managers and others. ☐
- b) Review and contribute to test plans. ☐
- c) Decide about the implementation of the test environment. ☐
- d) Write test summary reports ☐

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Tasks





1 Task

Estimating test effort (1/2)

To calculate the test effort for a project “Web shop”, you collected following information:

- Test duration: 4 weeks, 3 weekly iterations planned – risk load 10 %.
- Test planning should be done in 20 hours. Test control effort: 4 hours / week
- 20 Test cases to prepare, per TC 2 hours effort, including training. To execute per TC 1 hours effort.
- Defect management: 40 defects expected. Effort per defect: 30 min.
- Performance tests are already prepared, execution all in: 30 hours.
- 1 test machine for 40.000 Thai Baht is required.
- Cost / hour is 100 Thai Baht for every role.
- Reporting effort is 4 hours / week.
- No test closure activities required.



1 Task

Estimating test effort (2/2)

- Calculate the test effort using following effort estimation template
“KU-Bangkok_SWTest_2013-14_08_TestPlanning_EffortEstTemplate_v1.0”
(see <https://mike.cpe.ku.ac.th/~uwe/219343/>)



1 Proposal

Estimating test effort

Personal costs						Planning values			Real values		
Id	Task	Number	hours per item	intermediate hours	Comment	Cost / hour	hours	Costs	Cost / hour	hours	Costs
1.1	Test planning			20							
1.2	Test control	4	4	16	4 weeks 4 hours/week						
1	Test planning and control			36		฿ 100	36	฿ 3.600			
2.1	Test case preparation	20	2	40	Per test case 2 hours						
2	Test analysis and design			40		฿ 100	40	฿ 4.000			
3.1	Test case execution	20	1	20							
3.2	Defect management	40	0,5	20	2 defects / test case						
3.3	Load and performance tests			30							
3	Test implementation and execution			70		฿ 100	70	฿ 7.000			
4	Evaluating exit criteria and reporting	4	4	16	4 hours / week	฿ 100	16	฿ 1.600			
5	Test closure activities					฿ 100	-	฿ -			
Sum							162	฿ 16.200		0	0
Material costs						Planning values			Real values		
Id	Item					Price	Quantity	Costs	Price	Quantity	Costs
M1	1 test machine					฿ 40.000	1	฿ 40.000			
Sum								฿ 40.000			0
Overview						Planning values			Real values		
Personal costs								฿ 16.200			0
Material costs								฿ 40.000			0
Intermediate result								฿ 56.200			
Risk load							10%	฿ 5.620			
Overall result								฿ 61.820			0