



Core Testing>Basic Testing>Day 9



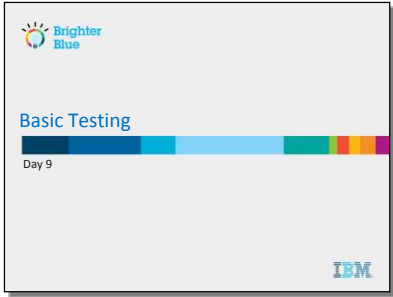
Instructor Guide



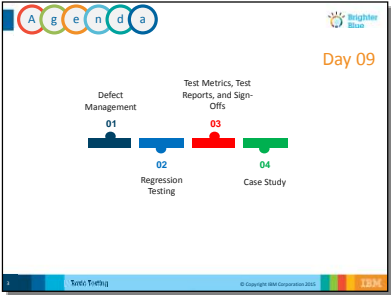
Contents

MODULE 01: DEFECT MANAGEMENT	3
MODULE 02: REGRESSION TESTING	42
MODULE 03: TEST METRICS, TEST REPORTS, AND SIGN-OFF	51
MODULE 04: CASE STUDY	84

Module 01: Defect Management

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 1</p> 		


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 2</p>  <p>At the end of the module, you should be able to:</p> <ul style="list-style-type: none"> ▪ Define defect ▪ Define and illustrate defect life cycle ▪ Describe the testing principles ▪ Define and classify defect classes ▪ List the requirement specification defects ▪ Describe the different types of design defects ▪ List the design and coding defects ▪ Illustrate defect origination and the cost of fixing defects 	<p>Purpose: To go over the objectives of this module</p> <p>Approximate Duration: 5 minutes</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Discuss the module objectives. 	

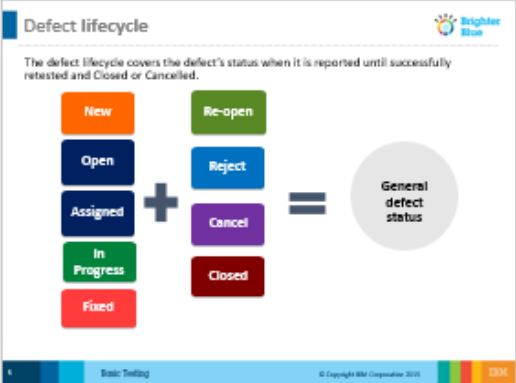
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<ul style="list-style-type: none"> ▪ Describe how to prevent defects, the cost of errors, and the legal consequences of defective testing ▪ Illustrate defect and change tracking ▪ Describe how to conduct log change requests ▪ Describe what are test defect metrics, defect severity, defect find and fix rate, and other defect metrics ▪ Describe the common defect tracking tools ▪ Illustrate the common defect or change request life cycle ▪ Describe what are defect remarks and how to use a checklist before entering a defect and how to avoid duplication 		

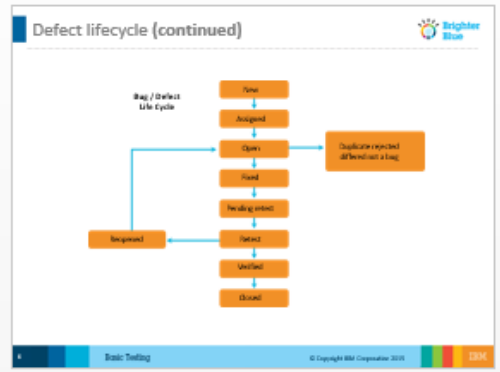
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 3</p> 	<p>Purpose: To define defect</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Define defect. ▪ Highlight the basic features and points associated with a defect so that the participants can easily identify it when they chance upon it. 	

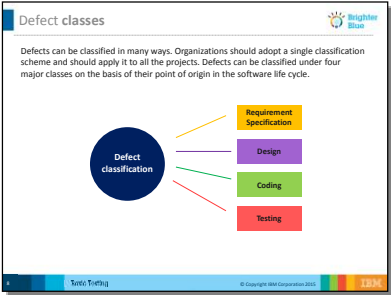
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 4</p>  <p>The defect lifecycle covers the defect's status when it is reported until successfully retested and Closed or Cancelled.</p> <p>Defect lifecycle diagram showing a flow from New to Open, Assigned, In Progress, and Fixed, with branches for Re-open, Reject, Cancel, and Closed, all leading to a General defect status.</p>	<p>Purpose: To describe defect lifecycle.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Inform the participants that the status of the defect is covered by the defect lifecycle until the issues are successfully retested and addressed. Tell them about what constitutes a typical defect lifecycle. 	

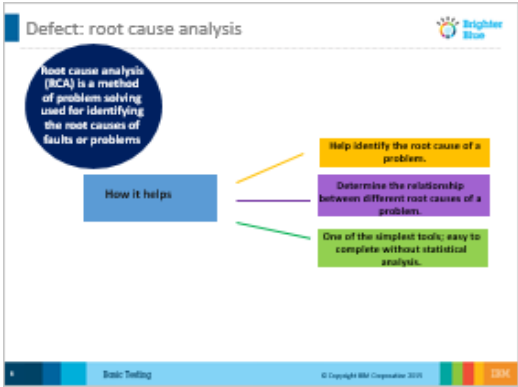
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 5</p>  <p>The flowchart titled 'Defect lifecycle (continued)' shows the process flow for a defect. It starts with 'Open / Defect Life Cycle' leading to 'Open'. From 'Open', the flow goes to 'Assigned', then 'Fixed', then 'Testing in progress', then 'Closed'. A side path from 'Open' leads to 'Classification required' and then 'Deferred to a later date'. A feedback loop from 'Closed' leads back to 'Assigned'.</p>	<p>Purpose: To illustrate defect lifecycle</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Illustrate defect lifecycle to the participants so that they have a clear idea of how the entire process works. Point out clearly the workflow of: <ul style="list-style-type: none"> Normal defect Exception defect 	

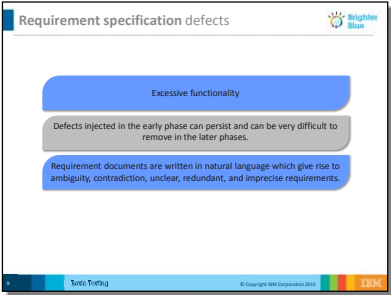
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 6</p> 	<p>Purpose: To describe the defect classifications.</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Inform the participants that there are many classifications of defects and as a general rule, a single scheme of classification should be adopted by organizations to apply to all projects. ▪ Describe how defects can be classified into four main types according to their basis of origin: <ul style="list-style-type: none"> ○ Requirement specification ○ Design ○ Coding ○ Testing 	

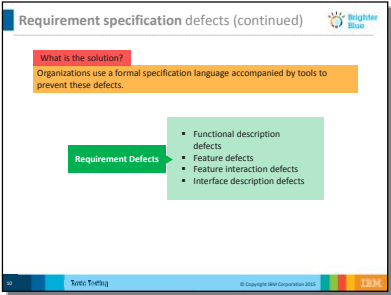
Core Testing > Basic Testing > Day 9

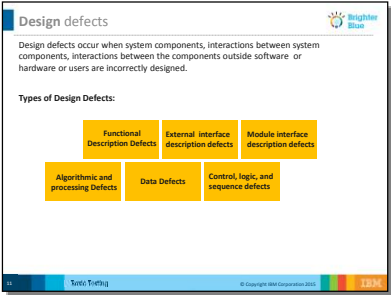
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 7</p> 	<p>Purpose: To describe the defect root cause analysis</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Describe the defect root cause analysis ▪ Understand the ways in which defect root cause analysis process help: <ul style="list-style-type: none"> ○ Help identify the root cause of the problem ○ Determine the relationship between different root causes of a problem ○ One of the simplest tools; easy to complete without statistical analysis 	

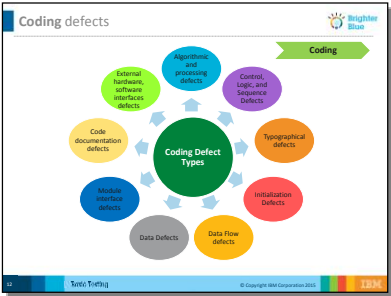
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 8</p> 	<p>Purpose: To describe the requirement specification defects</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the requirement specification defects that may arise like: <ul style="list-style-type: none"> Excessive functionality Defects in the early phase (since they often persist and can be stubborn to remove) Ambiguity, contradiction, unclear, redundant, and imprecise requirements arising due to requirement documents written in natural language 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 9</p> 	<p>Purpose: To define solution and the requirement defects.</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Give a brief overview of solution to the participants. ▪ Tell them about the common requirement defects like: <ul style="list-style-type: none"> ○ Functional description defects ○ Feature defects ○ Feature interaction defects ○ Interface description defects 	

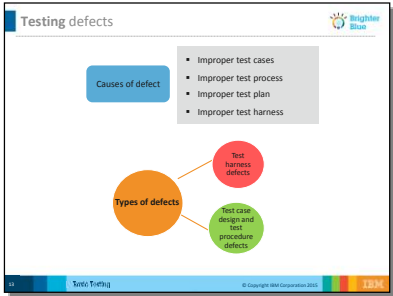
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 10</p> 	<p>Purpose: To describe the types of design defects</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Inform the participants about the circumstances in which design defects take place. Describe the types of design defects that generally occur: <ul style="list-style-type: none"> Functional description defects External internal description defects Module interface description defects Algorithmic and processing defects Data defects Control, logic, and sequence defects 	

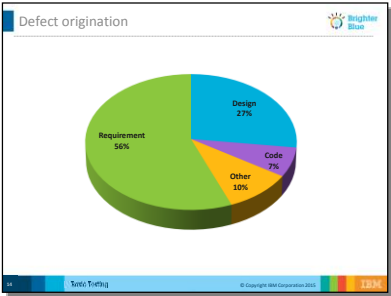
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 11</p>  <p>Coding defects are derived from errors in implementing the code. Coding defects are similar to design defects.</p>	<p>Purpose: To list the types of coding defects</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Inform the participants how coding defects occur. Explain the similarity between coding and design defects. List out the types of coding defects there may be, like : <ul style="list-style-type: none"> External hardware, software interfaces defects Algorithmic and processing defects Control, Logic, and Sequence Defects Typographical defects Initialization Defects Data Flow defects Data Defects Module interface defects 	

Core Testing > Basic Testing > Day 9

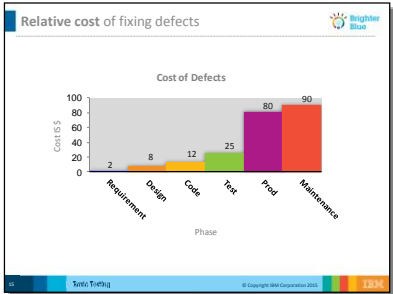
Slide Content	Instructor Guide	Use this space for your own notes
	<ul style="list-style-type: none">○ Code documentation defects	

Core Testing > Basic Testing > Day 9

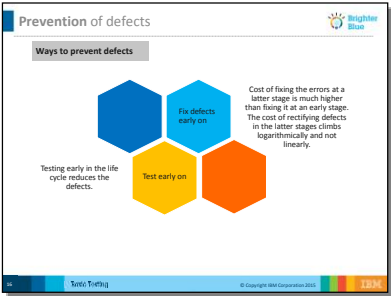
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 12</p>  <p>Defects originate due to improper Test Plan, Test Cases, Test Harness, and Test Process.</p>	<p>Purpose: To discuss the causes and types of defects</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Inform how testing defects occur and the basic causes: <ul style="list-style-type: none"> Improper Test Cases Improper test process Improper test plan Improper test harness Discuss the types of defects: <ul style="list-style-type: none"> Test harness defects Test Case design and test procedure defects 	

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 13</p> 	<p>Purpose: To illustrate the process of defect origination.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Illustrate the process of defect origination with the help of a pie chart so that the participants can get an idea about the approximate contributory percentage of each factor for this. Clearly point out the percentages of various types of defects generally found: <ul style="list-style-type: none"> Requirement- 56% Design- 27% Code- 7% Other- 10% 	

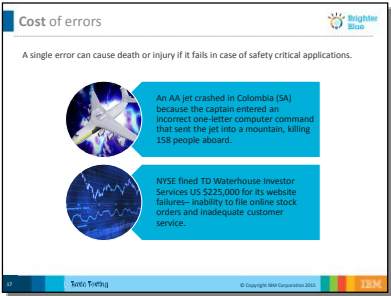
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes														
<p>Slide 14</p>  <table border="1"><caption>Relative cost of fixing defects</caption><thead><tr><th>Phase</th><th>Cost (£/\$)</th></tr></thead><tbody><tr><td>Requirement</td><td>2</td></tr><tr><td>Design</td><td>8</td></tr><tr><td>Code</td><td>12</td></tr><tr><td>Test</td><td>25</td></tr><tr><td>Prod</td><td>80</td></tr><tr><td>Maintenance</td><td>90</td></tr></tbody></table>	Phase	Cost (£/\$)	Requirement	2	Design	8	Code	12	Test	25	Prod	80	Maintenance	90	<p>Purpose: To illustrate the relative cost of fixing defects.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none">■ Illustrate the relative cost of fixing defects on the basis of some basic factors	
Phase	Cost (£/\$)															
Requirement	2															
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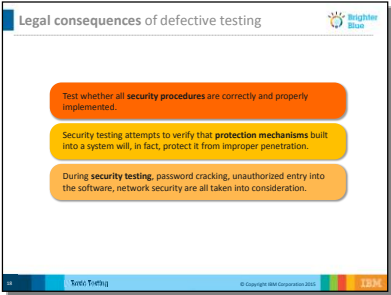
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 15</p> 	<p>Purpose: To describe the ways of preventing defects.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the ways of preventing defects: <ul style="list-style-type: none"> Fix defects early on Test early on Discuss how they can help in the entire process. 	

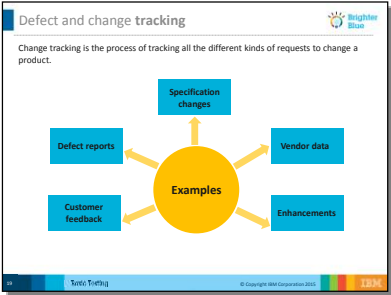
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 16</p> 	<p>Purpose: To describe the calamities that can happen as a result of errors in testing through examples.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the calamities that can happen as a result of errors in testing through real examples and incidents. Highlight the incidents to focus on the importance of precision. 	

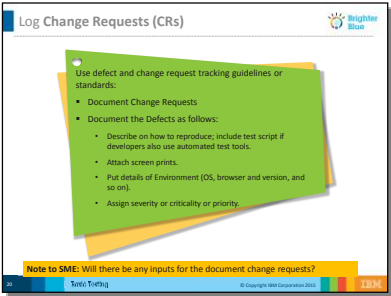
Core Testing > Basic Testing > Day 9

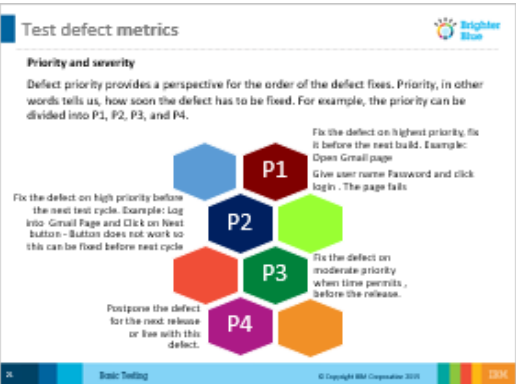
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 17</p> 	<p>Purpose: To describe the legal consequences of defective testing.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the various factors surrounding the legal consequences of defective testing: <ul style="list-style-type: none"> Test for correct and proper implementation of all security procedures Verify the proper and impenetrable factor of protection mechanisms built into a system Ensure that all kinds of network penetration issues are taken into consideration during security testing 	

Core Testing > Basic Testing > Day 9

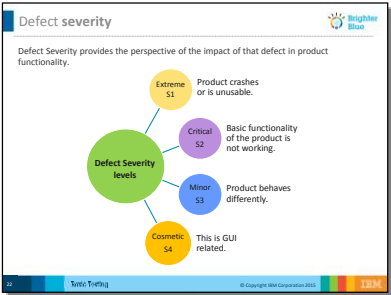
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 18</p> 	<p>Purpose: To give an idea about defect and change tracking.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Give a brief idea to the participants about change tracking. ▪ Elaborate on the idea through some examples like: <ul style="list-style-type: none"> ○ Defect reports ○ Specification changes ○ Vendor data ○ Enhancements ○ Customer feedback 	

Core Testing > Basic Testing > Day 9

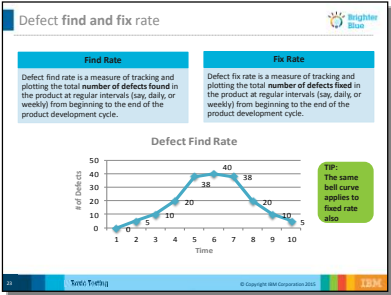
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 19</p> 	<p>Purpose: To describe the log change requests in the documentation process.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Describe the log change requests in the documentation process. ▪ Discuss the standards or guidelines for defect and change request tracking: <ul style="list-style-type: none"> ○ Document change requests ○ Documenting defects 	

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 20</p>  <p>The slide titled 'Test defect metrics' explains defect priority and severity. It features a central diagram with four colored hexagons labeled P1 (red), P2 (blue), P3 (green), and P4 (purple). Surrounding these are four light blue hexagons with instructions: 'Fix the defect on highest priority, fix it before the next build. Example: Open Gmail page. Give user name Password and click login. The page fails.' (top), 'Fix the defect on high priority before the next test cycle. Example: Log into Gmail Page and Click on Next button - Button does not work so this can be fixed before next cycle' (left), 'Fix the defect on moderate priority when time permits, before the release.' (right), and 'Postpone the defect for the next release or live with this defect.' (bottom). The footer includes 'Basic Testing', '© Copyright IBM Corporation 2019', and the IBM logo.</p>	<p>Purpose: To describe the test defect metrics in detail.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe what is defect priority and severity. Describe how the priority can be divided into various levels like: <ul style="list-style-type: none"> P1 P2 P3 P4 Discuss the steps that need to be taken according to the levels of priority. 	

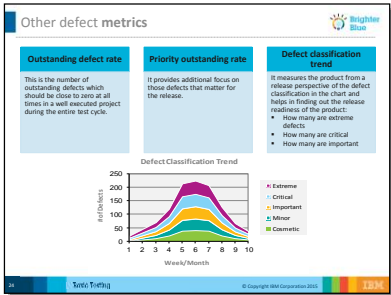
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 21</p> 	<p>Purpose: To describe in detail the types of defect severity.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the types of defect severity. Give the participants an idea about the defect severity levels: <ul style="list-style-type: none"> Extreme S1 Critical S2 Minor S3 Cosmetic S4 	

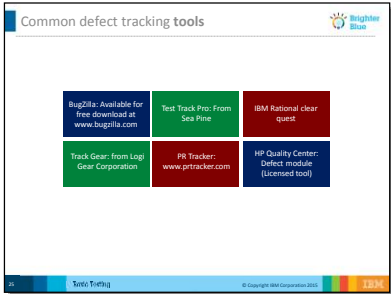
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes																																	
<p>Slide 22</p>  <p>Find Rate Defect find rate is a measure of tracking and plotting the total number of defects found in the product at regular intervals (say, daily, or weekly) from beginning to the end of the product development cycle.</p> <p>Fix Rate Defect fix rate is a measure of tracking and plotting the total number of defects fixed in the product at regular intervals (say, daily, or weekly) from beginning to the end of the product development cycle.</p> <p>Defect Find Rate</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Find Rate</th> <th>Fix Rate</th> </tr> </thead> <tbody> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>5</td><td>5</td></tr> <tr><td>3</td><td>10</td><td>10</td></tr> <tr><td>4</td><td>20</td><td>20</td></tr> <tr><td>5</td><td>38</td><td>38</td></tr> <tr><td>6</td><td>40</td><td>40</td></tr> <tr><td>7</td><td>38</td><td>38</td></tr> <tr><td>8</td><td>20</td><td>20</td></tr> <tr><td>9</td><td>10</td><td>10</td></tr> <tr><td>10</td><td>5</td><td>5</td></tr> </tbody> </table> <p>TIP: The same bell curve applies to find rate also.</p>	Time	Find Rate	Fix Rate	1	0	0	2	5	5	3	10	10	4	20	20	5	38	38	6	40	40	7	38	38	8	20	20	9	10	10	10	5	5	<p>Purpose: To describe the defect fix and find rates.</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the defect fixes and find rates. Discuss how to measure them with the participants. Illustrate defect find rate through a graph. 	
Time	Find Rate	Fix Rate																																	
1	0	0																																	
2	5	5																																	
3	10	10																																	
4	20	20																																	
5	38	38																																	
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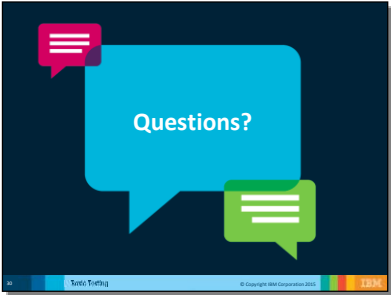
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 23</p> 	<p>Purpose: To describe the other defect metrics.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the other defect metrics that include- <ul style="list-style-type: none"> Outstanding defect rate Priority outstanding rate Defect classification trend Illustrate defect classification trend through a graphical representation. 	

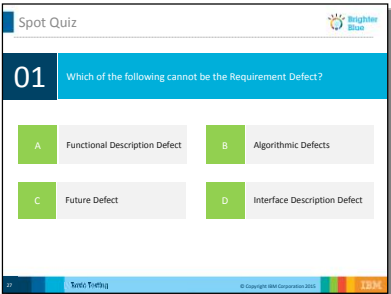
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 24</p> 	<p>Purpose: To describe the common defect tracking tools</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> List the common defect tracking tools: <ul style="list-style-type: none"> BugZilla Test Track Pro IBM Rational clear quest Track Gear PR Tracker HP Quality Center Give the participants an idea about their availability. 	

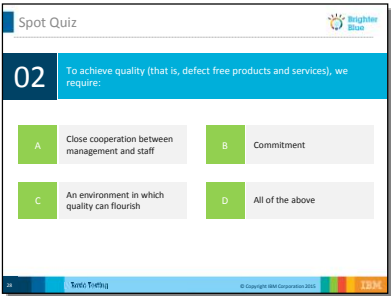
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 25</p> 	<p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Ask the participants if they have any questions. ▪ Include any questions that will be addressed later in the course as parking lot items. ▪ Use this activity to recap the key takeaways from this module. 	

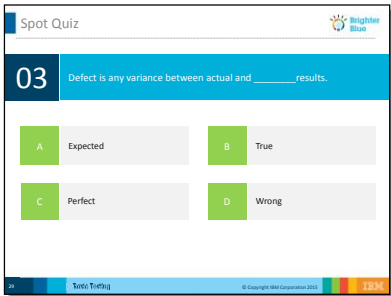
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 26</p>  <p>The slide is titled 'Spot Quiz' and contains a question: 'Which of the following cannot be the Requirement Defect?'. There are four options: A. Functional Description Defect, B. Algorithmic Defects, C. Future Defect, and D. Interface Description Defect. The slide also features the IBM logo and copyright information at the bottom.</p>	<p>Purpose: To check knowledge of the participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll. Ask them to raise their hands based on their answer. The correct answer is B. Algorithmic Defects 	


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 27</p>  <p>The slide is titled 'Spot Quiz' and features the Brighter Blue logo. It contains a question: 'To achieve quality (that is, defect free products and services), we require:'. Below the question are four options: A. Close cooperation between management and staff, B. Commitment, C. An environment in which quality can flourish, and D. All of the above. The slide also includes a footer with 'Tutor Training' and '© Copyright IBM Corporation 2005'.</p>	<p>Purpose: To check knowledge of the participants and break the monotony.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is D. All of the above. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 28</p>  <p>The slide shows a quiz titled 'Spot Quiz' with the question: 'Defect is any variance between actual and _____ results.' There are four options: A. Expected, B. True, C. Perfect, and D. Wrong. The correct answer is A. Expected.</p>	<p>Purpose: To check knowledge of the participants and break the monotony.</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll. Ask them to raise their hands based on their answer. The correct answer is A. Expected 	

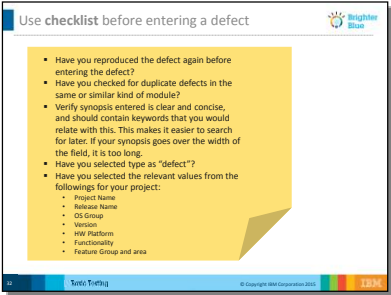
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 29</p>  <ul style="list-style-type: none"> ▪ Condense: Say it clearly but briefly. ▪ Accurate: Is it a defect or could it be user error, misunderstanding, and so on? ▪ Neutralize: Just the facts. No zingers. No humor. No emotion. ▪ Precise: Explicitly, what is the problem? ▪ Isolate: What has been done to isolate the problem? ▪ Re-create: What are the essentials in triggering/re-creating this problem? (environment, steps, conditions) ▪ Impact: What is the impact to the customer? What is the impact to testing? Sell the defect. 	<p>Purpose: To discuss the key points required to make a defect report effective</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Explain to the participants what are the key points required to make a defect report effective: <ul style="list-style-type: none"> ○ Condense ○ Accurate ○ Neutralize ○ Precise ○ Isolate ○ Re-create ○ Impact ○ Debug ○ Evidence ▪ Discuss in detail all the nine points so that the participants are able to craft an effective defect report in no time. 	

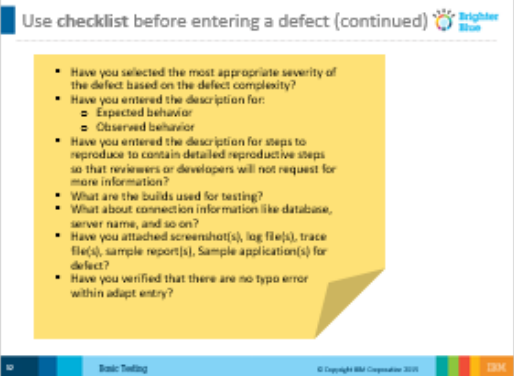
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<ul style="list-style-type: none"> ▪ Debug: What does development need to make it easier to debug? (Traces, dumps, logs, immediate access, and so on.) ▪ Evidence: What documentation will prove the existence of the error? 		

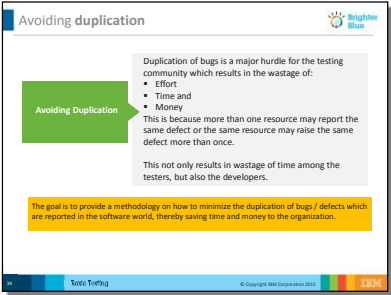
Core Testing > Basic Testing > Day 9

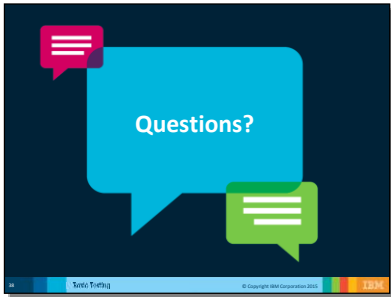
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 30</p> 	<p>Purpose: To tell the participants about the checklist before entering a defect</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Discuss the various factors to be kept in mind before entering a defect through a checklist 	

Core Testing > Basic Testing > Day 9

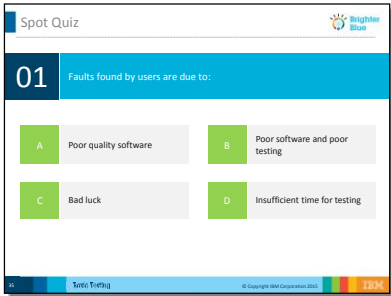
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 31</p> 	<p>Purpose: To tell the participants about the checklist before entering a defect</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Take forward the discussion started in the previous slides by focusing on other factors to be kept in mind before entering a defect through a checklist. 	

Core Testing > Basic Testing > Day 9

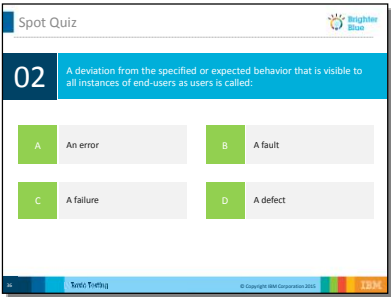
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 32</p> 	<p>Purpose: To describe how to avoid duplication of bugs</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Name the main factors which suffer due to duplication of bugs: <ul style="list-style-type: none"> ○ Effort ○ Time ○ money ▪ Describe the reasons behind this debacle happening in the first place. ▪ Discuss how a methodology is needed for minimizing of defects or bugs reported in the software word. 	

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 33</p> 	<p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Ask the participants if they have any questions. ▪ Include any questions that will be addressed later in the course as parking lot items. ▪ Use this activity to recap the key takeaways from this module. 	

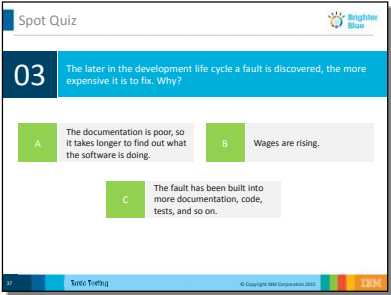
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 34</p>  <p>The slide is titled 'Spot Quiz' and contains a question: 'Faults found by users are due to:'. There are four options: A. Poor quality software, B. Poor software and poor testing, C. Bad luck, and D. Insufficient time for testing. The slide also features the IBM logo and a copyright notice for IBM Corporation 2005.</p>	<p>Purpose: To check knowledge of the participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is B. Poor software and poor testing. 	

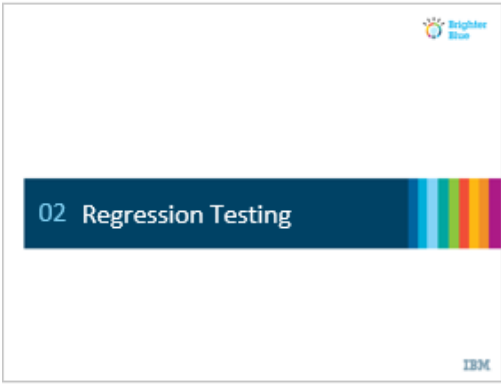
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 35</p>  <p>The slide is titled 'Spot Quiz' and features the Brighter Blue logo. It contains a question: 'A deviation from the specified or expected behavior that is visible to all instances of end-users as users is called:'. Below the question are four options: A. An error, B. A fault, C. A failure, and D. A defect. The slide also includes a footer with 'Tutor Training' and '© Copyright IBM Corporation 2005'.</p>	<p>Purpose: To check knowledge of the participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll. Ask them to raise their hands based on their answer. The correct answer is C. A defect. 	

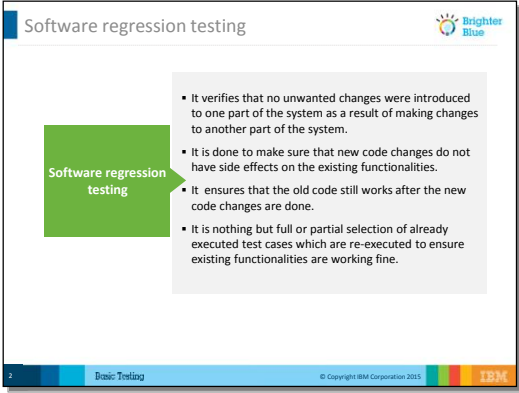
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 36</p> 	<p>Purpose: To check knowledge of the participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is C. The fault has been built into more documentation, code, tests, and so on. 	

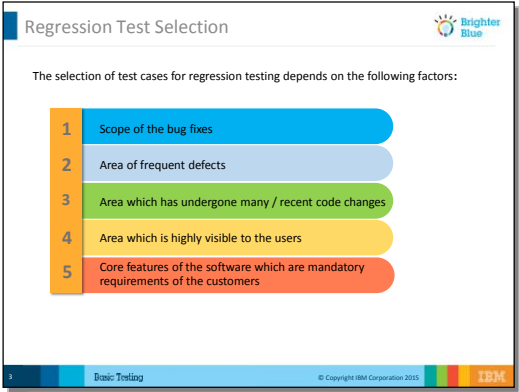
Module 02: Regression Testing

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 37</p>  <p>The objectives of this module are to:</p> <ul style="list-style-type: none"> ▪ Define and describe the importance and pre-requisites of Test Case writing ▪ Describe the characteristics of a good Test Case and how to write it • List the attributes of Test Case and the documents required to write a Test Case 	<p>Purpose: To go over the objectives of this module</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Give an overview of the topic covered in the module. • Enlighten the participants about the relevance of software regression testing in recent times and their careers. 	

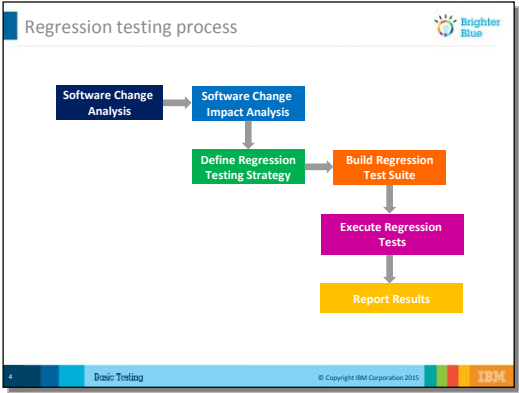
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 38</p>  <p>The slide titled 'Software regression testing' lists four bullet points: 1. It verifies that no unwanted changes were introduced to one part of the system as a result of making changes to another part of the system. 2. It is done to make sure that new code changes do not have side effects on the existing functionalities. 3. It ensures that the old code still works after the new code changes are done. 4. It is nothing but full or partial selection of already executed test cases which are re-executed to ensure existing functionalities are working fine. The slide includes the IBM logo and copyright information.</p>	<p>Purpose: To describe the features of software regression testing</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Introduce the participants to software regression testing. • Explain what software regression is testing. • Ask participants why they think software regression testing might be required. Build upon their responses to tell them why it is required. • Share examples of cases where regression testing was used. 	

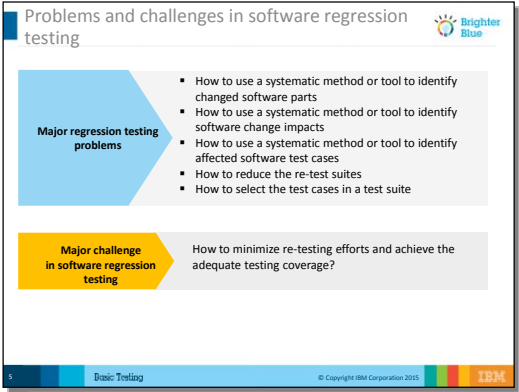
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 39</p> 	<p>Purpose: To describe the factors that contribute towards the test case selection process for regression testing</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Share the factors that need to be considered before selecting test cases for regression testing. • It would be great if you can share examples for each factor. 	

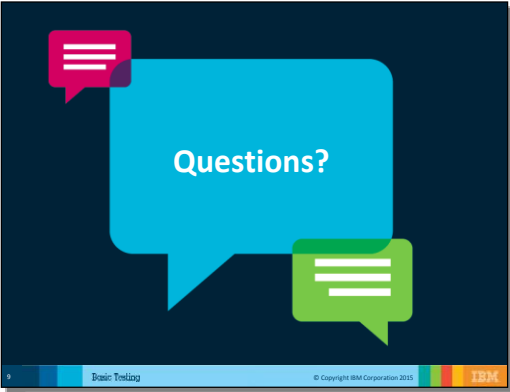
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 40</p>  <pre> graph TD A[Software Change Analysis] --> B[Software Change Impact Analysis] B --> C[Define Regression Testing Strategy] C --> D[Build Regression Test Suite] D --> E[Execute Regression Tests] E --> F[Report Results] </pre> <p>The flowchart illustrates the regression testing process. It starts with 'Software Change Analysis', followed by 'Software Change Impact Analysis'. From there, it branches into 'Define Regression Testing Strategy' and 'Build Regression Test Suite'. Both of these lead to 'Execute Regression Tests', which finally leads to 'Report Results'. The slide includes the 'Brighter Blue' logo in the top right and the 'IBM' logo in the bottom right. The footer text reads 'Basic Testing' and '© Copyright IBM Corporation 2015'.</p>	<p>Purpose: To illustrate the regression testing process</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Describe each step in the regression testing process. • After explaining each step, ask the participants if they have any questions before moving on to the next step. • It would be great if you can use an example to illustrate the steps. 	

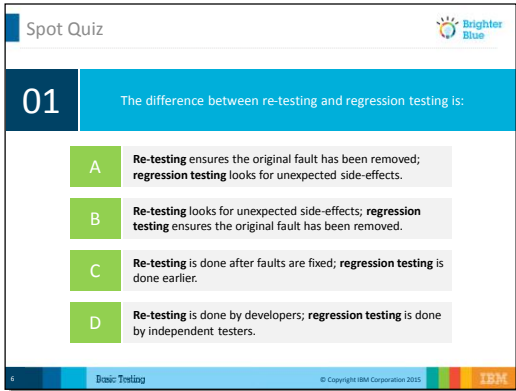
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Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 41</p> 	<p>Purpose: To describe the problems and challenges in software regression testing</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Describe the problems and challenges associated with software regression testing. Tell the participants why these challenges need to be solved for a smooth testing process. 	

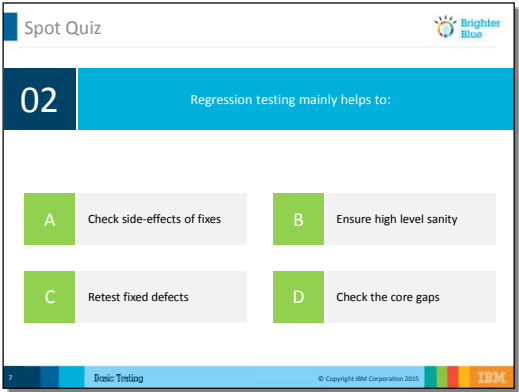
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 42</p> 	<p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Ask the participants if they have any questions. ▪ Include any questions that will be addressed later in the course as parking lot items. ▪ Use this activity to recap the key takeaways from this module. 	

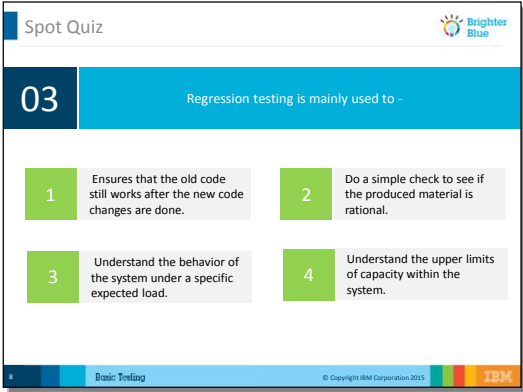
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 43</p>  <p>The slide is titled 'Spot Quiz' and contains a question: 'The difference between re-testing and regression testing is:'. It lists four options: A, B, C, and D. Option A is the correct answer.</p>	<p>Purpose: To check the knowledge of participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is A. Re-testing ensures the original fault has been removed; regression testing looks for unexpected side-effects. Explain the correct answer, why it's correct and others are incorrect. 	


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 44</p>  <p>The slide is titled 'Spot Quiz' and 'Regression testing mainly helps to:'. It lists four options: A. Check side-effects of fixes, B. Ensure high level sanity, C. Retest fixed defects, and D. Check the core gaps. The IBM logo and copyright notice are at the bottom.</p>	<p>Purpose: To check the knowledge of participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 45</p>  <p>The slide is titled 'Spot Quiz' and 'Regression testing is mainly used to -'. It contains four numbered options: 1. Ensures that the old code still works after the new code changes are done. 2. Do a simple check to see if the produced material is rational. 3. Understand the behavior of the system under a specific expected load. 4. Understand the upper limits of capacity within the system. The slide footer includes 'Basic Testing', '© Copyright IBM Corporation 2015', and the IBM logo.</p>	<p>Purpose: To check the knowledge of participants and break the monotony</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll - Ask them to raise their hands based on their answer. The correct answer is A. True 	

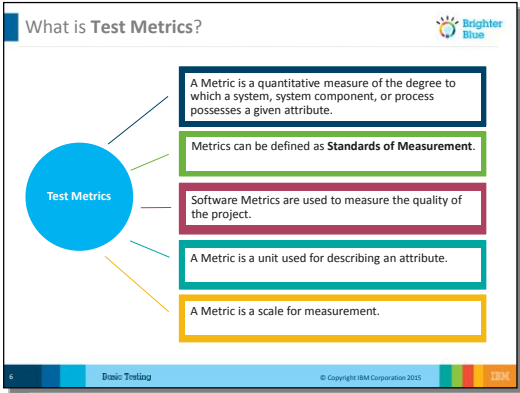
Module 03: Test Metrics, Test Reports, and Sign-off

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 46</p>  <p>At the end of this module, you should be able to:</p> <ul style="list-style-type: none"> ▪ Define Test Metrics ▪ Recall The Difference Between Measurements And Metrics ▪ Identify The Significance Of Software Testing Metrics ▪ List The Benefits Of Metrics ▪ Explain The Metrics Life Cycle 	<p>Purpose: To cover the objectives of this module</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Introduce the participants to Test Metrics. ▪ Explain the difference between Measurements and Metrics. ▪ Describe the significance of Software Testing Metrics. ▪ List the benefits of metrics. ▪ Describe what Metrics Life Cycle is. ▪ Recall the types of test reports, such as Test Execution and Test Summary Report. ▪ Explain what Sign-offs are. 	

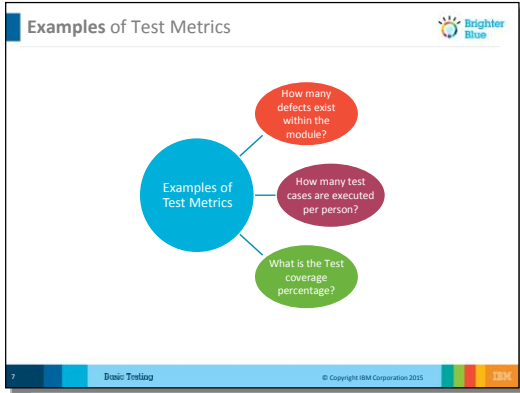
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<ul style="list-style-type: none"> ▪ Recognize The Types Of Test Reports, Such As Test Execution And Test Summary Report ▪ Describe Sign-offs 		

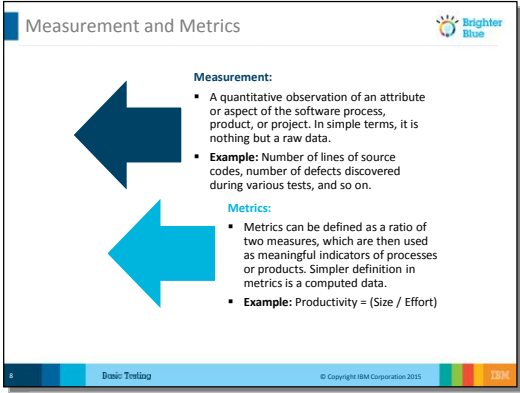
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 47</p> 	<p>Purpose: To define Test Metrics</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Introduce the participants to test metrics. You can talk about the following: <ul style="list-style-type: none"> A Metric is a quantitative measure of the degree to which a system, system component, or process possesses a given attribute. A Metric can be defined as Standards of Measurement. 	

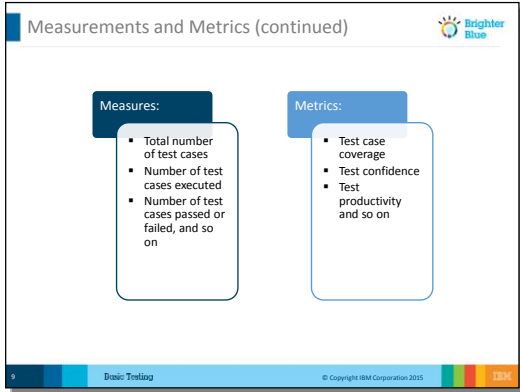
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 48</p> 	<p>Purpose: To give examples of test metrics</p> <p>Approximate Duration: 3 - 4 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Share examples of test metrics. ▪ You can talk about the following: 	

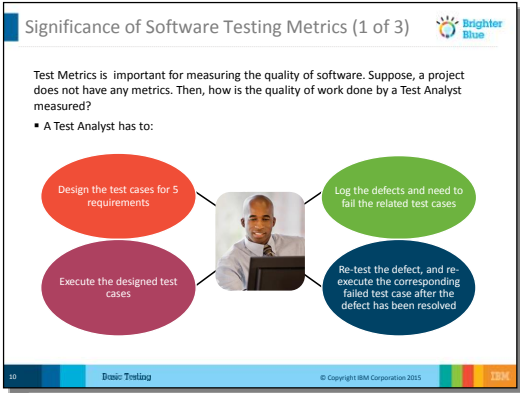
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 49</p>  <p>Measurement:</p> <ul style="list-style-type: none"> A quantitative observation of an attribute or aspect of the software process, product, or project. In simple terms, it is nothing but a raw data. Example: Number of lines of source codes, number of defects discovered during various tests, and so on. <p>Metrics:</p> <ul style="list-style-type: none"> Metrics can be defined as a ratio of two measures, which are then used as meaningful indicators of processes or products. Simpler definition in metrics is a computed data. Example: Productivity = (Size / Effort) <p>Basic Testing © Copyright IBM Corporation 2015</p>	<p>Purpose: To give a comparison of measurements and metrics</p> <p>Approximate Duration: 5 - 6 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Define measurement. You can give examples. Define metrics and share examples. Ask the participants if they have any questions. 	

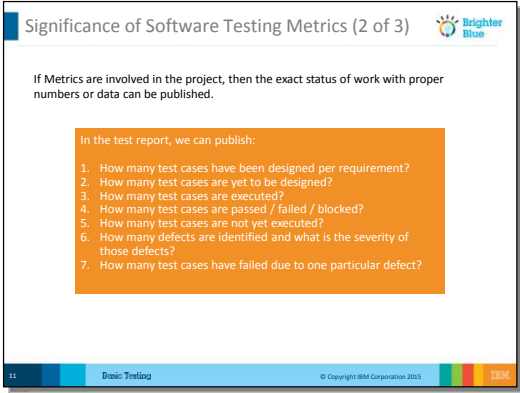
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 50</p> 	<p>Purpose: To give a comparison between measurements and metrics</p> <p>Approximate Duration: 7 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Make a comparison between measurements and metrics. Give examples. 	

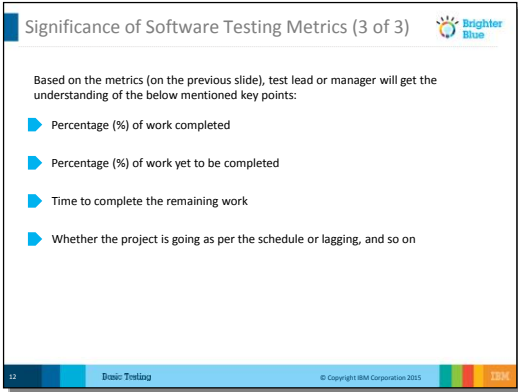
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 51</p>  <p>In the above scenario, if metrics are not followed, then the work completed by the test analyst will be subjective. For example, the test report will not have the proper information to know the status of his work or project.</p>	<p>Purpose: To understand the significance of Software Testing Metrics</p> <p>Approximate Duration: 3 - 4 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Explain to the class why test metrics is important. Share an example. ▪ Discuss the role of a test analyst. ▪ Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

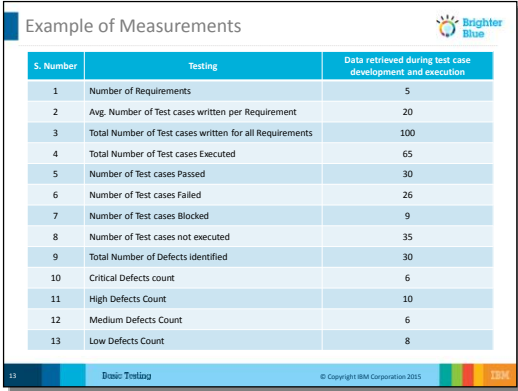
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 52</p>  <p>Based on the project needs, we can have more metrics than the above mentioned list, to know the status of the project in detail.</p>	<p>Purpose: To understand the significance of software testing metrics</p> <p>Approximate Duration: 4 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Discuss the importance of test metrics in a project. ▪ You can talk about how based on the project needs, we can have more metrics in a project. ▪ Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. <ul style="list-style-type: none"> • Explain in detail what we can publish in a test report. 	

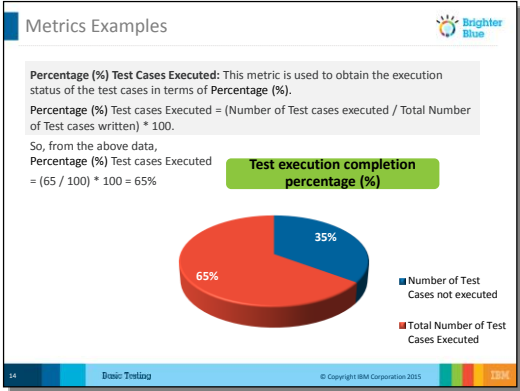
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 53</p>  <p>Based on the metrics, if the project is not going to complete as per the schedule, then the manager will raise the alarm to the client and other stake holders by providing the reasons for lagging to avoid the last minute surprises.</p>	<p>Purpose: To understand the significance of software testing metrics</p> <p>Approximate Duration: 4 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Explain to the class how based on the metrics, the test lead or manager understands if a project is on schedule or lagging behind. The manager will also understand the time that it would take to complete a project. 	

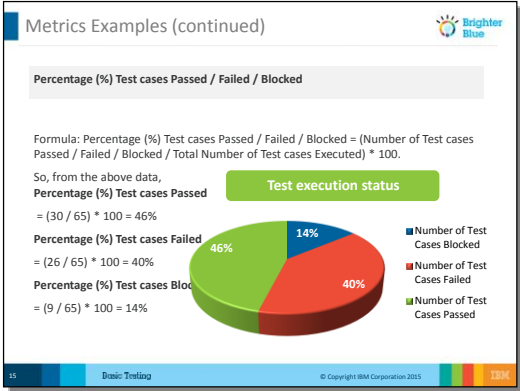
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes																																										
<p>Slide 54</p>  <p>The slide content shows a table titled 'Example of Measurements' with the following data:</p> <table border="1"> <thead> <tr> <th>S. Number</th> <th>Testing</th> <th>Data retrieved during test case development and execution</th> </tr> </thead> <tbody> <tr><td>1</td><td>Number of Requirements</td><td>5</td></tr> <tr><td>2</td><td>Avg. Number of Test cases written per Requirement</td><td>20</td></tr> <tr><td>3</td><td>Total Number of Test cases written for all Requirements</td><td>100</td></tr> <tr><td>4</td><td>Total Number of Test cases Executed</td><td>65</td></tr> <tr><td>5</td><td>Number of Test cases Passed</td><td>30</td></tr> <tr><td>6</td><td>Number of Test cases Failed</td><td>26</td></tr> <tr><td>7</td><td>Number of Test cases Blocked</td><td>9</td></tr> <tr><td>8</td><td>Number of Test cases not executed</td><td>35</td></tr> <tr><td>9</td><td>Total Number of Defects Identified</td><td>30</td></tr> <tr><td>10</td><td>Critical Defects count</td><td>6</td></tr> <tr><td>11</td><td>High Defects Count</td><td>10</td></tr> <tr><td>12</td><td>Medium Defects Count</td><td>6</td></tr> <tr><td>13</td><td>Low Defects Count</td><td>8</td></tr> </tbody> </table>	S. Number	Testing	Data retrieved during test case development and execution	1	Number of Requirements	5	2	Avg. Number of Test cases written per Requirement	20	3	Total Number of Test cases written for all Requirements	100	4	Total Number of Test cases Executed	65	5	Number of Test cases Passed	30	6	Number of Test cases Failed	26	7	Number of Test cases Blocked	9	8	Number of Test cases not executed	35	9	Total Number of Defects Identified	30	10	Critical Defects count	6	11	High Defects Count	10	12	Medium Defects Count	6	13	Low Defects Count	8	<p>Purpose: To view example of measurements</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Show an example of measurements (table) to the class. ▪ You can pick up a few rows and columns and explain measurements. 	
S. Number	Testing	Data retrieved during test case development and execution																																										
1	Number of Requirements	5																																										
2	Avg. Number of Test cases written per Requirement	20																																										
3	Total Number of Test cases written for all Requirements	100																																										
4	Total Number of Test cases Executed	65																																										
5	Number of Test cases Passed	30																																										
6	Number of Test cases Failed	26																																										
7	Number of Test cases Blocked	9																																										
8	Number of Test cases not executed	35																																										
9	Total Number of Defects Identified	30																																										
10	Critical Defects count	6																																										
11	High Defects Count	10																																										
12	Medium Defects Count	6																																										
13	Low Defects Count	8																																										

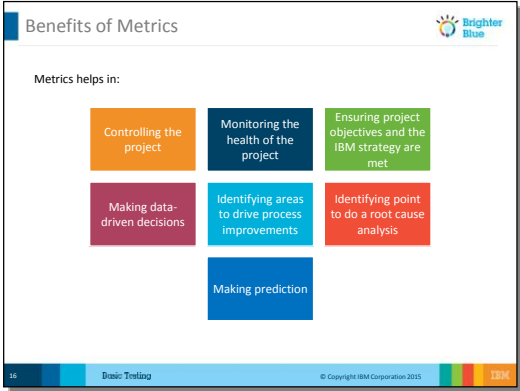
Core Testing > Basic Testing > Day 9

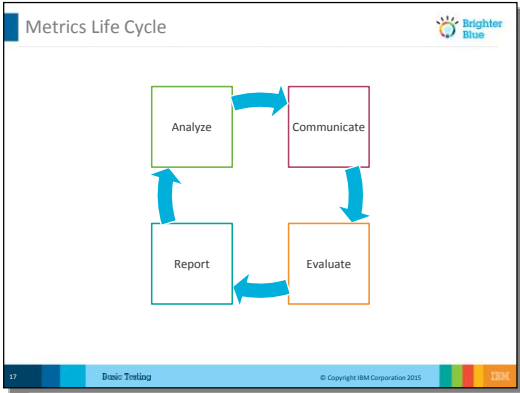
Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 55</p> 	<p>Purpose: To view examples of metrics</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Show how Percentage (%) Test Cases Executed is computed. ▪ This metric is used to obtain the execution status of the test cases in terms of Percentage (%). ▪ Explain with the help of an example. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 56</p> 	<p>Purpose: To view examples of metrics</p> <p>Approximate Duration: 3 - 4 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Show how Percentage (%) Test Cases Passed / Failed / Blocked or computed. ▪ Write down the formula for a better understanding of the class: <ul style="list-style-type: none"> ○ (Number of Test cases Passed / Failed / Blocked / Total Number of Test cases Executed) * 100. 	

Core Testing > Basic Testing > Day 9


Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 57</p> 	<p>Purpose: To learn the benefits of metrics</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Explain the benefits of metrics to the participants. ▪ Enlighten the participants about the relevance of metrics in recent times. 	

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 58</p>  <p>Analyze:</p> <ul style="list-style-type: none"> Identify the Test Metrics Define the identified Metrics <p>Communicate:</p> <ul style="list-style-type: none"> Explain the need of metric to stakeholder and testing team. Educate the testing team about the data points that need to be captured for processing the metric. 	<p>Purpose: To learn about the Metrics Life Cycle</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Explain the stages of the Metrics Life Cycle. Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

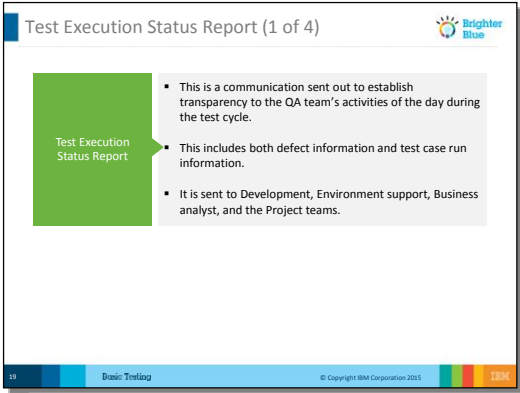
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Evaluate:</p> <ul style="list-style-type: none"> ▪ Capture and verify data. ▪ Calculating the metric(s) value using the data captured. <p>Generate:</p> <ul style="list-style-type: none"> ▪ Develop the report with effective conclusion. ▪ Distribute report to the stakeholder and respective representative. ▪ Take feedback from stakeholder. 		

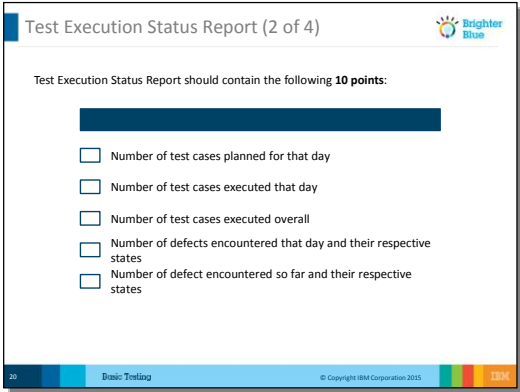
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 59</p>  <p>Test reports used in the SDLC:</p> <ul style="list-style-type: none"> ▪ Test Execution Status Report ▪ Test Summary Report 	<p>Purpose: To understand and define a Test Report</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Identify the features of a test report. • Discuss the two types of reports used in the SDLC. • Explain the relevance and importance of a test report in the program. 	

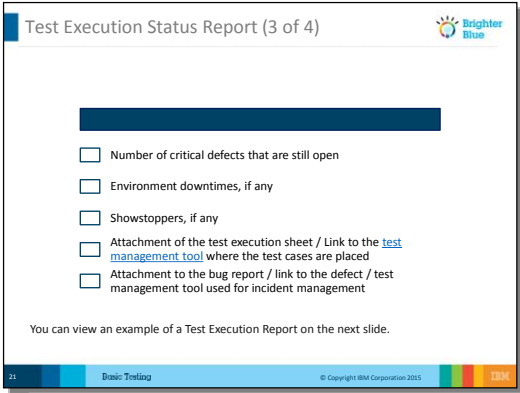
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 60</p> 	<p>Purpose: To define Test Execution Status Report</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Provide a definition of Test Execution Status Report. You can talk about the following points: <ul style="list-style-type: none"> This is a communication sent out to establish transparency to the QA team's activities of the day during the test cycle. This includes both defect information and test case run information. It is sent to Development, Environment support, Business analyst, and the Project teams. 	


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 61</p> 	<p>Purpose: To describe Test Execution Status Report</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Explain the points to be included in the test execution status report. Tell the class that a Test Execution Status Report should contain 10 points. Briefly explain these points. 	

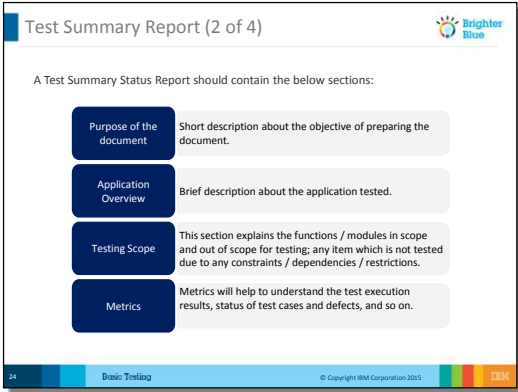
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 62</p> 	<p>Purpose: To define Test Execution Status Report</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Explain the points to be included in the test execution status report. • Ask the participants if they have any query. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 63</p> 	<p>Purpose: To describe a Test Summary Report</p> <p>Approximate Duration: 20 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ This topic will be covered over four screens. You can start with the definition of Test Summary Report. ▪ You can say: <ul style="list-style-type: none"> ○ Test Summary Report is an important deliverable which is prepared at the end of a Testing project, or rather after Testing is completed. ▪ Also say, Test Summary Report provides a consolidated report on the Testing performed so far for the project. 	

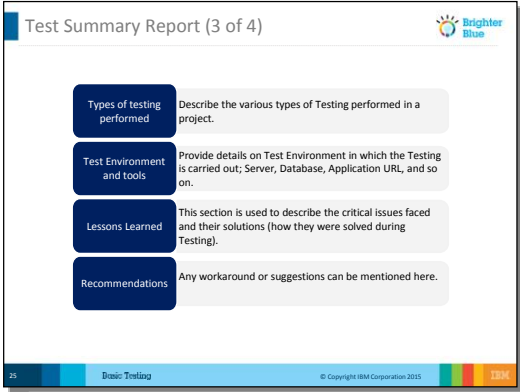
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Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 64</p>  <ul style="list-style-type: none"> ▪ Purpose of the document: Short description about the objective of preparing the document. ▪ Application Overview: Brief description about the application tested. ▪ Testing Scope: This section explains about the functions / modules in scope and out of scope for testing; any items which are not tested due to any constraints / dependencies / restrictions. ▪ Metrics: Metrics will help to understand the test execution results, status of test cases and defects, and so on. 	<p>Purpose: To describe a Test Summary Report</p> <p>Approximate Duration: 20 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ You have given a definition of the Test Summary Report. Now discuss the importance of test summary report. ▪ Talk about the points that should be included in a test summary report. ▪ Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<ul style="list-style-type: none"> ▪ Metrics: Metrics will help to understand the test execution results, status of test cases and defects, and so on. Required Metrics can be added as necessary. For example: Defect Summary-Severity wise; Defect Distribution-Function/Module wise; Defect Ageing and so on, Charts / Graphs can be attached for better visual representation. 		

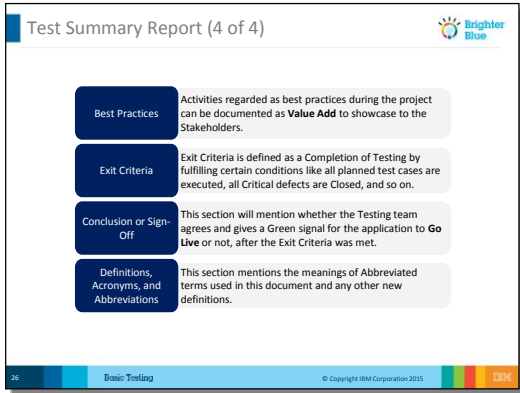
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 65</p>  <ul style="list-style-type: none"> ▪ Types of testing performed: Describe the various types of Testing performed for the Project. This will make sure the application is being tested properly through testing types agreed as per Test Strategy. ▪ Test Environment and tools: Provide details on Test Environment in which the Testing is carried out; Server, Database, Application URL and so on. If any Tools were used like Quality Center (now HP ALM) for logging defects. 	<p>Purpose: To describe a Test Summary Report</p> <p>Approximate Duration: 20 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Describe the various types of testing performed in a project. ▪ Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<ul style="list-style-type: none"> ▪ Lessons Learned: This section is used to describe the critical issues faced and their solutions (how they were solved during the Testing). Lessons learned will help to make proactive decisions during the next Testing engagement, by avoiding these mistakes or finding a suitable workaround. ▪ Recommendations: Any workaround or suggestions can be mentioned here. 		

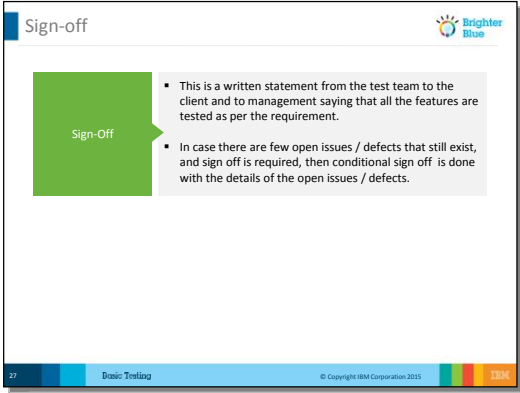
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 66</p>  <ul style="list-style-type: none"> ▪ Best Practices: There will be lot of activities done by the Testing team during the project. Some of them could have saved time, some proved to be a good and efficient way to work, and so on. These can be documented as a Value Add to showcase to the Stakeholders. ▪ Exit Criteria: Exit Criteria is defined as a Completion of Testing by fulfilling certain conditions like: 	<p>Purpose: To describe a Test Summary Report</p> <p>Approximate Duration: 20 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ You have already given a definition of the Test Summary Report and discussed its importance. ▪ You have also talked about the various types of testing performed in a project. ▪ Now talk about the best practices in a project. ▪ Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

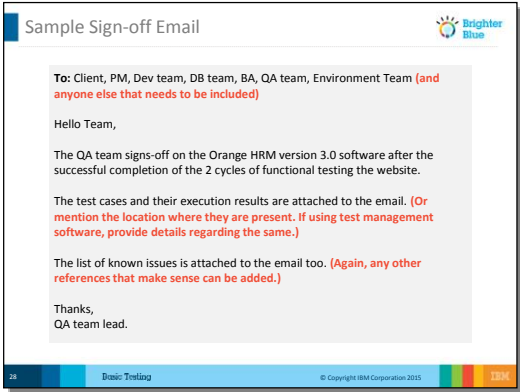
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>a. All planned test cases are executed; b. All Critical defects are Closed and so on.</p> <ul style="list-style-type: none"> ▪ Conclusion / Sign Off: This section will mention whether the Testing team agrees and gives a Green signal for the application to Go Live or not, after the Exit Criteria was met. If the application does not meet the Exit Criteria, then it can be mentioned as—the application is not suggested to Go Live. It will be left with the decision of Senior Management and Client and other Stakeholders involved to take the call on whether the application can Go Live or not. ▪ Definitions, Acronyms, and Abbreviations: This section mentions the meanings of Abbreviated terms used in this document and any other new definitions. 		


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 67</p>  <p>As we have to notify all the stakeholders that testing has begun, it is also the QA team's duty to let everyone know that testing has been complete and share the results. So, typically an email is sent from the QA team (usually the team lead / QA manager) giving an indication that QA team has signed off on the product attaching the test results and the list of open or known issues.</p>	<p>Purpose: To define a Sign-off</p> <p>Approximate Duration: 3 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Provide a definition of a Sign-off. It is a written statement from the test team to the client and to management saying that all the features are tested as per the requirement. Refer to the notes section of the slide (also in the Slide Content Column of this document) to explain it further. 	

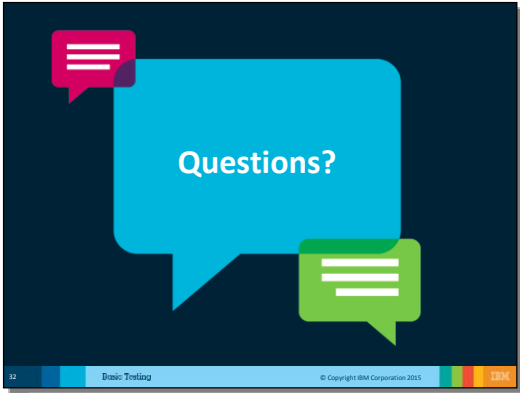
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 68</p>  <p>The slide titled 'Sample Sign-off Email' shows an email template. The 'To' field lists 'Client, PM, Dev team, DB team, BA, QA team, Environment Team (and anyone else that needs to be included)'. The body of the email says: 'Hello Team, The QA team signs-off on the Orange HRM version 3.0 software after the successful completion of the 2 cycles of functional testing the website. The test cases and their execution results are attached to the email. (Or mention the location where they are present. If using test management software, provide details regarding the same.) The list of known issues is attached to the email too. (Again, any other references that make sense can be added.) Thanks, QA team lead.'</p>	<p>Purpose: To view an example of a sign-off email</p> <p>Approximate Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Discuss the content of a sign-off email. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 69</p>  <ul style="list-style-type: none"> ▪ Create your own sample sign-off email based on the example found in the previous slide. ▪ Make sure you include all the relevant details as what was discussed. 	<p>Purpose: To apply the concepts of writing a sign-off email</p> <p>Approximate Duration: 10 mins</p> <p>Additional Materials or Pre-session prep tasks:</p> <ul style="list-style-type: none"> ▪ Easel sheets / paper ▪ Pens <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Discuss how the participants should write a sign-off email. <p>Instructions for the participant:</p> <ul style="list-style-type: none"> ▪ Break the class into small groups (2-3 depending on the number of participants), or individually. ▪ Have participants to create their own sample sign-off email. <p>Debrief:</p> <ul style="list-style-type: none"> ▪ Point out the relevant information or content needed for each successful sign-off. 	

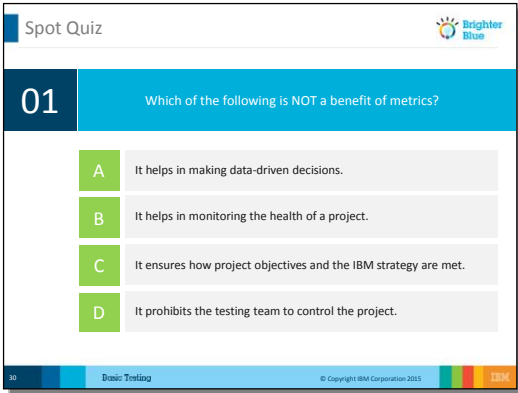
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 70</p> 	<p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> • Ask the participants if they have any questions. • Include any questions that will be addressed later in the course as parking lot items. • Use this activity to recap the key takeaways from this module. • You are the end of this module. The participants should now be able to: <ul style="list-style-type: none"> - Define test metrics - Recall the difference between measurements and metrics - Understand the significance of software testing metrics - List the benefits of metrics - Understand the metrics life cycle - Recall the types of test reports, such as test execution and test summary report 	


Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
	<ul style="list-style-type: none">- Understand sign-offs	

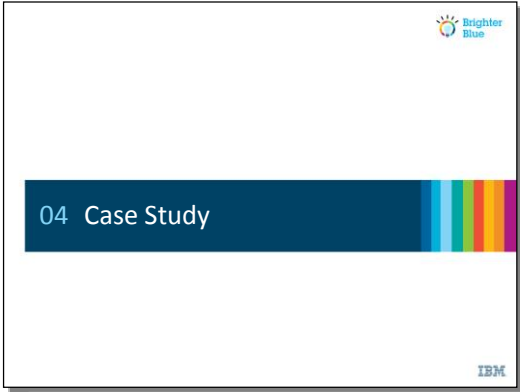
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 71</p>  <p>The slide is titled 'Spot Quiz' and contains a question: 'Which of the following is NOT a benefit of metrics?'. There are four options: A) It helps in making data-driven decisions, B) It helps in monitoring the health of a project, C) It ensures how project objectives and the IBM strategy are met, and D) It prohibits the testing team to control the project. The slide also features the IBM logo and copyright information at the bottom.</p>	<p>Purpose: To check for understanding of the topics covered</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll – Ask them to raise their hands based on the answer. The correct answer is d) It prohibits the testing team to control the project. Explain why D is the correct answer. For each incorrect answer, first explain why it is incorrect and then point out the correct answer. 	

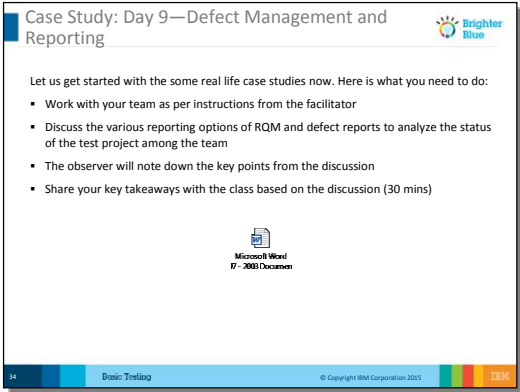
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 72</p>  <p>The slide is titled 'Spot Quiz' and contains a question: 'Which of the following is included in a test summary report?'. There are four options: A. Names of the Testing Team, B. Testing Scope, C. Weekly Showstoppers, and D. Team Assignments. The slide also features the IBM logo and copyright information at the bottom.</p>	<p>Purpose: To check for understanding of the topics covered</p> <p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> Ask the participants the question on the slide. Treat the question as a poll – Ask them to raise their hands based on the answer. The correct answer is b) Testing Scope Explain why B is the correct answer. For each incorrect answer, first explain why it is incorrect and then point out the correct answer. 	

Module 04: Case Study

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 73</p> 	<p>Purpose: Introduction to the Case Study.</p> <p>Duration: 2 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Tell the participants that it's time for another Test Case using the GH Online Money Transfer Case Study. 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 74</p> 	<p>Approximate Duration: 20 mins</p> <p>Additional Materials or Pre-session prep tasks:</p> <ul style="list-style-type: none"> ▪ Ensure that PCs have minimum 2.93 GHz Processor and 4 GB RAM (minimum 2GB), and 100 GB hard disk space ▪ Software requirements: <ul style="list-style-type: none"> ○ Platform: Microsoft Windows ○ Operating System (OS): Microsoft Windows XP SP3 or higher ○ Browser: Internet Explorer 8 and / or above ○ Technologies used: Java/J2EE, JSP, XML, and Tomcat ○ Software Tools: Rational Quality Manager (RQM) 4.0.3.1 for Test Management ○ Database: MySQL ○ Testing: Manual and RFT for Automation <p>What to cover:</p>	

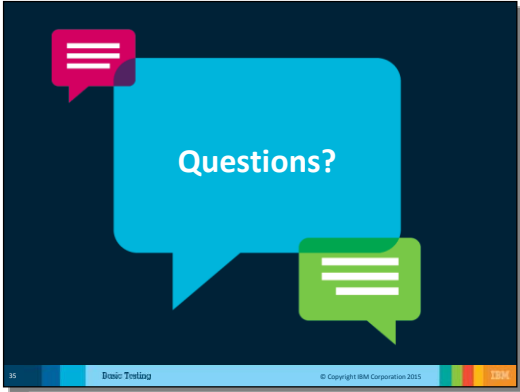
Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
	<ul style="list-style-type: none"> ▪ Work with your team as per instructions from the facilitator ▪ Discuss the various reporting options of RQM and defect reports to analyze the status of the test project among the team ▪ The observer will note down the key points from the discussion ▪ Share your key takeaways with the class based on the discussion (30 mins) <p>Purpose: To show how to review the test cases and record the review observations and comments using RQM or OPAL template</p> <p>Instructions for the participant:</p> <ul style="list-style-type: none"> ▪ Work with your team as per instructions from the facilitator ▪ Discuss the various reporting options of RQM and defect reports to analyze the status of the test project among the team ▪ The observer will note down the key points from the discussion ▪ Share your key takeaways with the class based on the discussion (30 mins) 	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
	<p>Debrief:</p> <ul style="list-style-type: none">▪ Explain the reporting options of RQM need to be discussed and defect reports to analyze the status of the test project	

Core Testing > Basic Testing > Day 9

Slide Content	Instructor Guide	Use this space for your own notes
<p>Slide 75</p> 	<p>Approximate Duration: 5 mins</p> <p>What to cover:</p> <ul style="list-style-type: none"> ▪ Ask the participants if they have any questions. ▪ Include any questions that will be addressed later in the course as parking lot items ▪ Use this activity to recap the key takeaways from this module 	