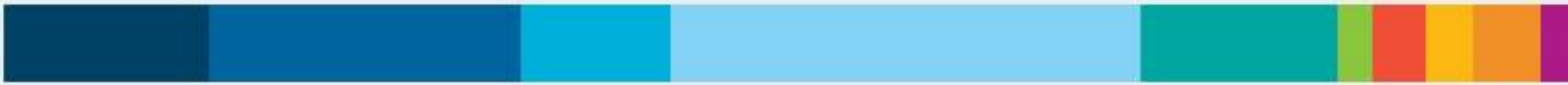
Core Testing>Basic Testing>Day 7 & 8



Student Guide

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Module 01: Test Execution

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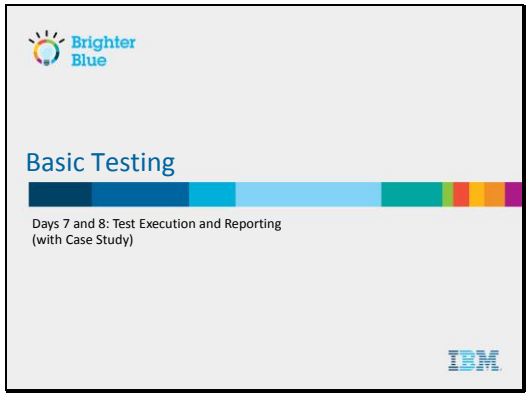
Slide 1 	
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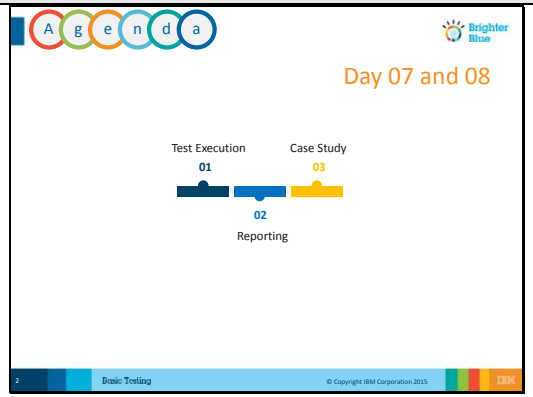 At the end of this module, you should be able to: ▪ Recognize the features of test execution ▪ Explain the process of reporting ▪ List the process of case study	
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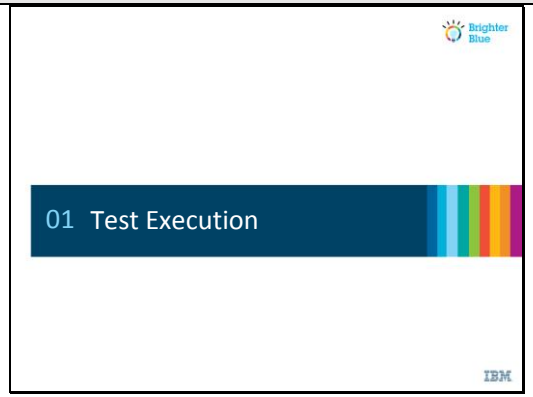 At the end of this module, you should be able to: ▪ Understand the flow of general test procedures ▪ Plan and execute tests ▪ Set-up systems and software ▪ Execute test cases	
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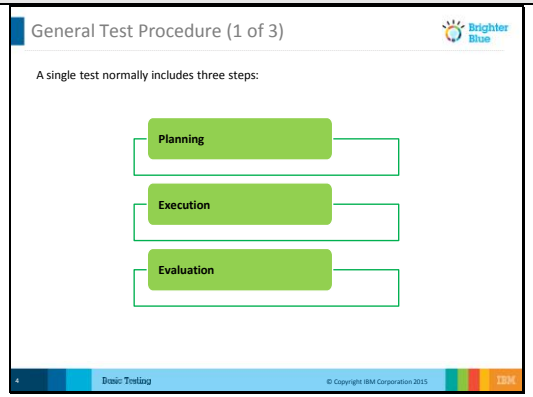	
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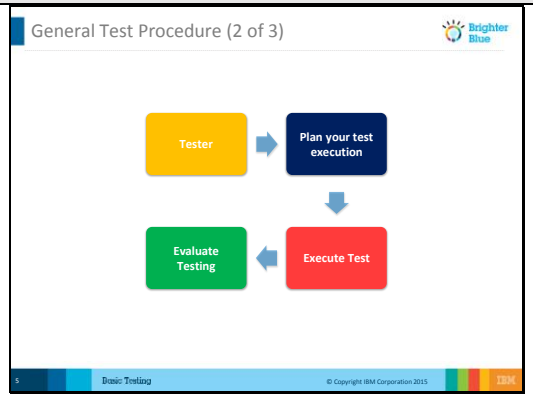	
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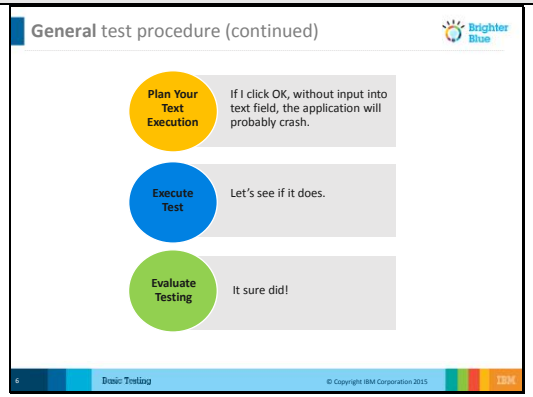	
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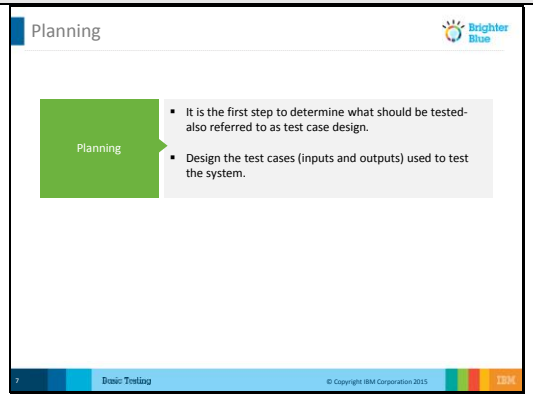	
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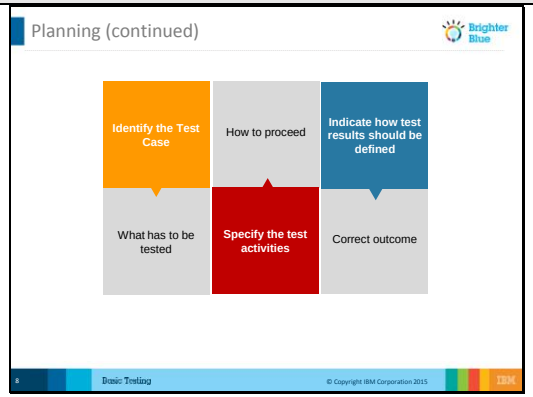	
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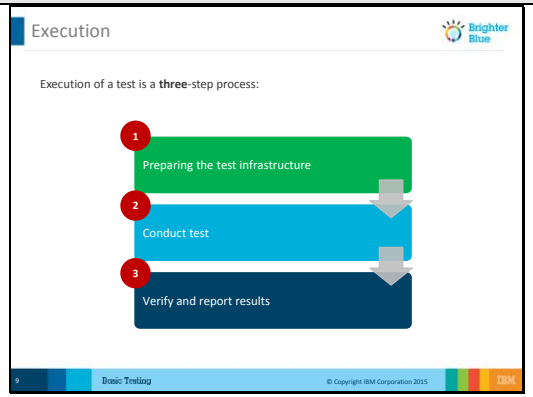	
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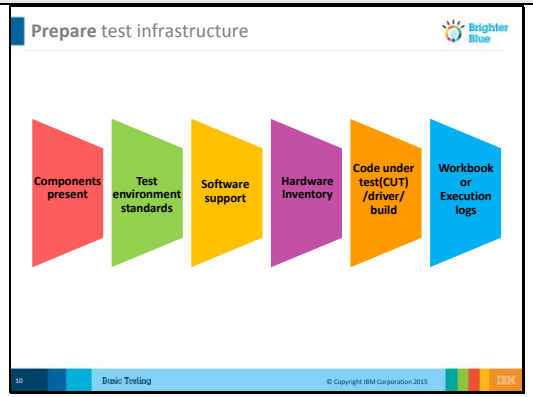

Components present

- Prepare test infrastructure task ensures that all the components such as technical resources, human resources, configurations, data, and test design specification are in place for successful execution of the test

Test environment standards

- The key to set up a test environment is to establish a set of standards that everyone in the project can adhere to.
- Software support
- Includes operating systems, middleware, system utilities, application, and patches and so on.
- Supporting software is stored on CD or available on a shared file system.

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• All supporting software will need to be installed in the environment in the exact sequence required by the components. • Detailed installation steps will be needed as it is a part of the implementation of the test cases. • When installing multiple supporting software elements, the order of installation is critical to the proper functioning of the environment. **Hardware Inventory** • Properly setting up the test-execution environment requires to have access the inventory of hardware that is needed, along with any special instructions for configuring the hardware. • It is important to ensure that you execute the test case in the exact hardware configuration identified by the test cases. • Tester must confirm that the hardware meets all the requirements and specifications such as memory, disk space, processor speeds and so on **Code under test(CUT) /driver/ build** • Code under test, also referred as a Driver or a Build is the packaged new / updated code that is ready to be installed and tested. • Properly preparing the environment for test-case execution also requires that you have access to the CUT. • Code is stored in a well-known place with naming conventions that indicate the exact driver or build levels. • Detailed procedures need to be in place to enable you to install the code	

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accurately and efficiently. **Workbook or Execution logs** • Workbook and execution logs are used to record the test-execution activity. • Workbooks are used when manually running tests, while execution logs are used to capture execution of tests run programmatically. • Store the log files in a well-known place with naming conventions to indicate the date captured and the build level being tested	
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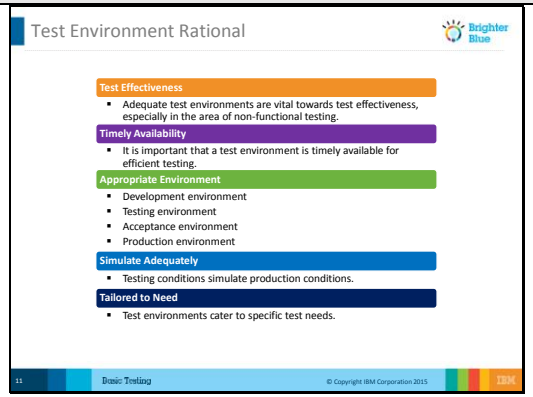

- Adequate test environments are vital towards test effectiveness, especially in the area of non-functional testing, where environment factors have a large influence on the behaviors.
- Similarly, the timely availability of such a test environment is paramount towards the efficiency of the test activity.
- Testing is performed in the appropriate dedicated environment, according to the principles of:
  - Development environment
  - Testing environment
  - Acceptance environment
  - Production environment
- Testing environments simulate the production conditions adequately.

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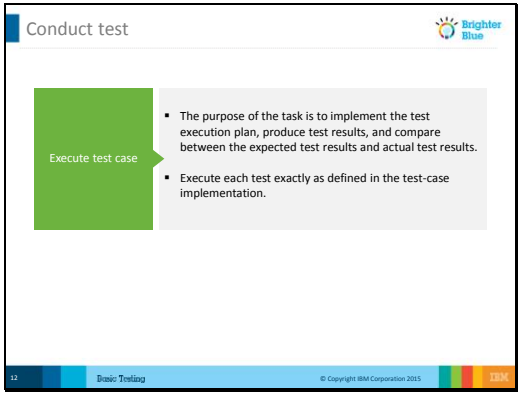
▪ Testing environments are tailored to specific testing needs under control of the test manager.	
Slide 12  	

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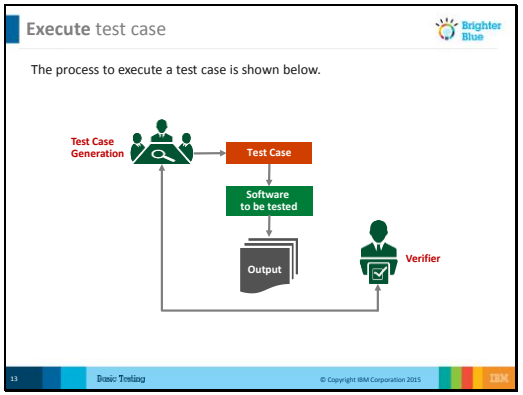
Slide 13  	
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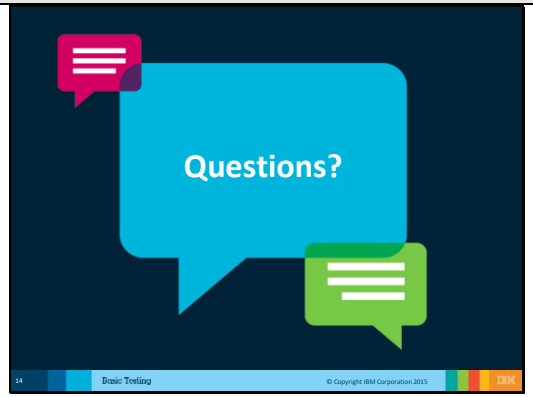	

Module 02: Reporting

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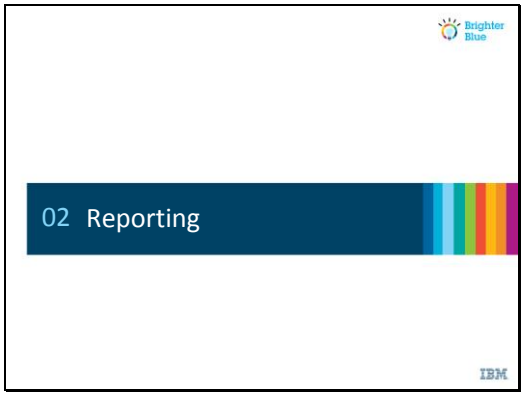
Slide 15  At the end of this module, you should be able to: ▪ Verify and analyze results ▪ Perform reporting	
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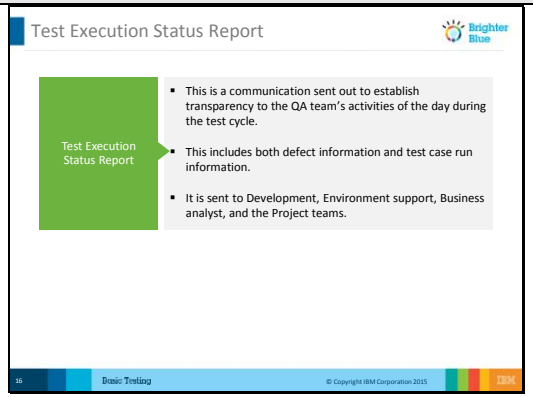	
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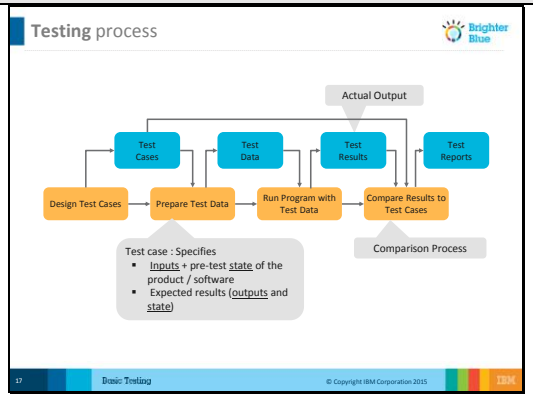	
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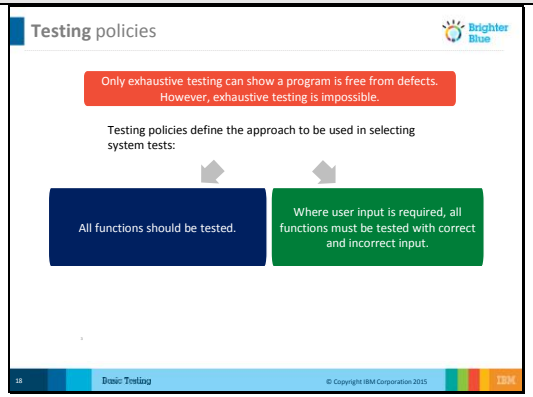	
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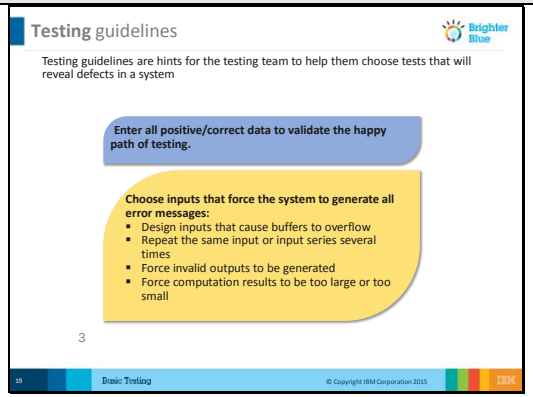	
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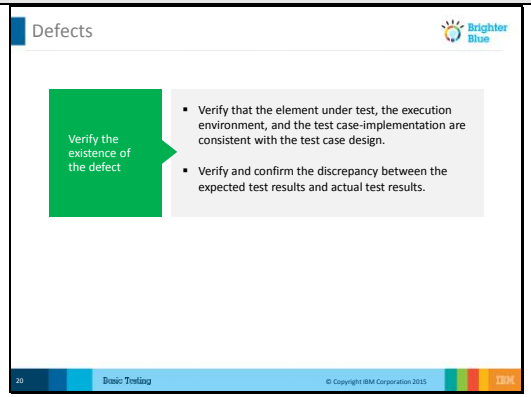	
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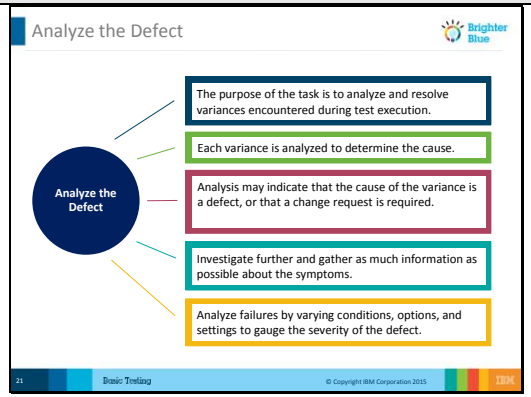	
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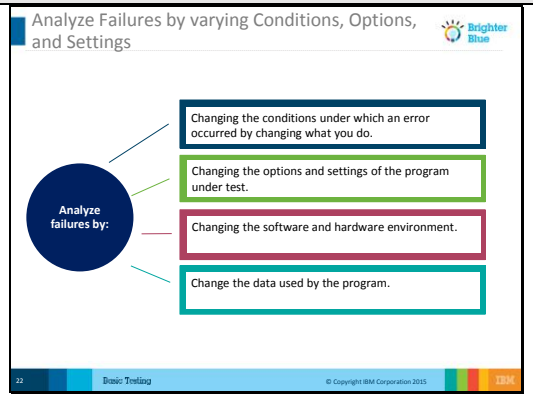

Change the conditions under which an error occurred by changing what you do. As an example, if the problem seems related to entering data very quickly, try slowing your rate of input.
Change the options and settings of the program under test. As an example, if the problem seems related to desktop screen-resolution settings, try varying the settings.
Change the software and hardware environment. For example, if the defect seems related to a low-end hardware configuration, try using the lowest configuration specified in the requirements.
Change the data used by the program. As an example, if the defect seems related to strings exceeding a certain number of characters in length, create a second set of test data to check the hypothesis

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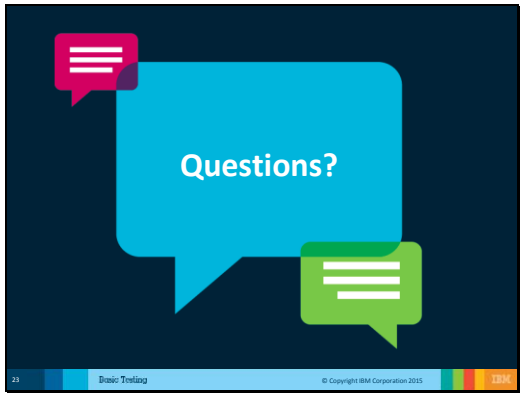
Slide 23 	

Module 03: Case Study

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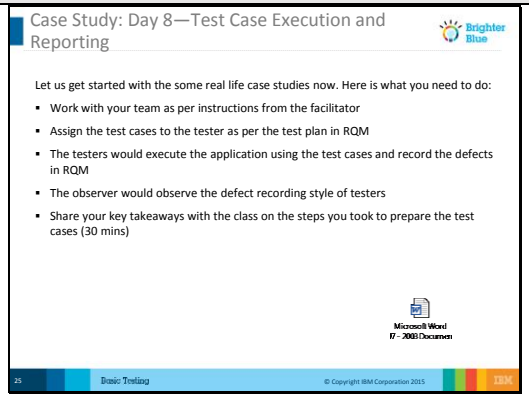	
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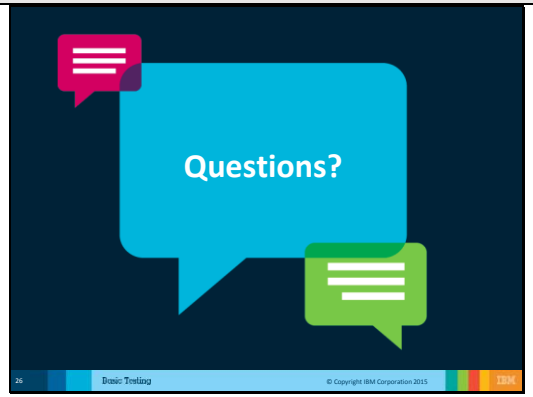
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