

Quality On Time Interview Questions And Answers Guide.



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Quality On Time Job Interview Preparation Guide.

Question # 1

Explain verifiable levels of test coverage in Quality On Time?

Answer:-

- * Integrated framework for testing designed to support tight Test Execution Cycle goals with verifiable levels of test coverage
- * Considers the "Paraclete Relationship": the tight bond between the test system and the system under test
 - Low maintenance requirements on the test framework per change in the AUT
- * Wrapped around a central relational database (ODBC)
- * Works on several tools offered by major vendors
- * Central point of maintenance for all test artifacts

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Question # 2

Explain Strategic Considerations in Quality On Time?

Answer:-

- * Before implementing a framework, the Test Organization should clarify its Strategic Goals and Objectives.
 - Specific Risks Identified & Mitigated
 - Measurement Requirements (Metrics)
 - Timeliness Goals (Test Cycle Turnaround Time)
 - Test Coverage Requirements (Code, Window/Object, Req'ts)
 - Team Skill Mix Requirements (e.g.: 1:10 Technical/Business)
 - Test Maintenance Requirements
- * If properly framed, the framework's major requirements should follow the Strategic Goals and Objectives of the Test Organization

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Question # 3

Explain Typical Framework Components in Quality On Time?

Answer:-

- * Test Harness Structure/Directory Tree
 - Framework Components Across AUTs
 - AUT-specific constructs
 - Release/Version-specific constructs
- * Scripting Templates and Coding Standards
 - Testing Hierarchy, Test Templates, Function Templates
- * Configuration Management Tools, Policies, Procedures
 - PVCS, ClearCase, MS SourceSafe, etc.
- * Mechanisms to address peculiarities of specific technologies
 - Functions for increased class support for Active X, etc.
- * Data repository or Database

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Question # 4

Explain A Closer Look at Team Skill Mix in Quality On Time?

Answer:-

- * Typical mix: 2:8:1 (2 SMEs; 8 Testers; 1 Developer/Guru)
- Such "Stratified Teams" are most efficient - required level of abstraction is raised for the typical test writer and coding challenges are placed on developer/guru
- * SMEs should be trained in the discipline of testing
 - Hierarchies and types of testing, Testability of requirements, what verifications constitute necessary and sufficient testing, etc.
- * SMEs and Testers together constitute the "Test Scripters"
 - Combination of Record and Function Generator (F7) Calls to start
- * Developers/Gurus constitute "Test Harness Support"
 - Work with scripters to write functions to streamline scripting
 - Supports/expands the framework infrastructure



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Question # 5

Explain Number of Supported Applications and Releases in Quality On Time?

Answer:-

- * Tool should load with full knowledge of AUT
 - For single AUT, harness-load command added to config (e.g.: TSLINIT for WinRunner or Settings --> Options --> Environment --> Startup Test)
 - Loads harness, all AUT-specific extensions, GUI Map Files, etc.
- * For Teams with Multiple Projects
 - Embed a User Interface step (e.g.: "create_list_dialogue") to select AUT at tool startup
- * Helpful Hint Should also load knowledge and functions for any needed ancillary applications (Telnet sessions, Middleware apps, Rumba, etc.)

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Question # 6

Explain Maturity of Applications in Quality On Time?

Answer:-

- # Mature Applications: Straightforward scripting,
 - AUT is stable: slight risk to script base per change in AUT
- # New Applications (can expect changes in windows/objects/navigational paths)
 - Considerable risk to existing script base as AUT changes
 - Affects "granularity" of the test case
- # If risk to existing script base is moderate or high
 - Consider a "State Navigation" component to the Framework
 - Allows navigational components of a test to be consolidated for ease of maintenance
 - Must understand the "Anatomy of a Test Case"

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Question # 7

Unattended Requirements in Quality On Time?

Answer:-

- * Determine continuum of unattended needs:
 - Close monitoring of executing scripts
 - Daily lab execution with periodic monitoring
 - Overnight execution - little or no monitoring
- * Harness robustness and error-recovery must be adequate for level of unattended need
- * Typically requires strategies and negotiations with Network Security to ensure testing needs and security needs are met
- * Central Reporting Log (Cycle Execution Log) can additionally be implemented for remote status monitoring

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Question # 8

Explain Miscellaneous in Quality On Time?

Answer:-

- * Harness and Tests should be under Configuration Management/Version Control
 - * Consider mechanisms to differentiate between a failed test (AUT is really broken) and a failed test case (test case is not implemented correctly)
- * Build a little, Test a little
- * Test Early/Test Often
- * Consider implementing links to ancillary applications to assist in defect discovery (Boundschecker, Norton Utilities, etc.)
- * Keep it simple!

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Question # 9

Explain A Closer Look at Test Frameworks in Quality On Time?

Answer:-

- # A Plethora of "Architectural Frameworks" have emerged over the past several years
 - General Purpose Frameworks: "One-Size-Fits-All"
 - Technology-Specific (Telephony Interfaces, Multi-Platform Applications, etc.)
- # Very difficult to anticipate all requirements in a "One-Size-Fits-All" model --Unnecessary constructs (e.g.: May contain elaborate environment constructs for single environment projects, etc.)
 - Insufficient constructs (e.g.: May lack key Active X support for required third-party controls, etc.)
 - Success of a framework is often hard to measure

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Question # 10

Explain Evaluation Criteria in Quality On Time?

Answer:-

- * Supports Strategic QA Goals & Objectives
 - * Conceptual Simplicity & Streamlined Use
 - * Efficient and Effective Test Development, Execution, and Reporting
 - * Maintenance and Robustness Considerations (Scripts and Harness)



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- * Each Construct is Necessary, Sum of Constructs are Sufficient
- * Poised for Expansion
- * Matched to Team Skill Set

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Question # 11

Explain Team Skill Mix in Quality On Time?

Answer:-

- * Business Skilled (a.k.a. "Subject Matter Expert" or "SME"): Understands business needs in-depth, spotty knowledge of technology, no coding knowledge
- * Tester Skilled: Understands discipline of testing and test development, spotty knowledge of scripting/coding
- * Developer Skilled: Understands software development practices. Proficient coder. Usually NOT skilled in the discipline of testing!
- * Guru: Understands software development practices in-depth at the strategic and tactical level. Also understands test practices in-depth. Gets the "Full-Picture".

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Question # 12

Explain Skill Mix: Impact on Framework in Quality On Time?

Answer:-

- * Strive for the simplest scripting environment possible
 - Move all complexities to the Developer/Guru
 - Gated by the skills of the Developers/Gurus
- * Open Architecture allows tremendous flexibility in customization
- * Hide as much of the complexity of the framework as possible
 - Automatically load harness components at tool load time
 - Incorporate routine maintenance and special reporting needs into simple function calls
- * Consider the maintainability and simplicity of the framework itself when making enhancements to it

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Question # 13

Explain A Closer Look at State Navigation in Quality On Time?

Answer:-

- * By combining setup and restore functions into a State Navigation component, we can eliminate about 30%* of the required steps to each test case
- * Such reduction affects those portions of the test cases that are most prone to rework as per change in the AUT
- * Can also perform routine tasks such as monitoring system resources, timestamping, and error recovery
- * * Average based on 6 years experience across wide range of industries and applications

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Question # 14

Explain Distributed Requirements in Quality On Time?

Answer:-

- * Scripts must retain independence from each other
 - If there are script dependencies, consider a 2-tier approach where at the "batch" tier (sometimes called Scenario) is independent, and all dependencies are handled within batch script
- * Consider concurrent impact on data --Similar test cases require different input data to run on different machines simultaneously
- * Consider implementing machine-specific (C: drive) and machine-independent (LAN drive) data sources to feed data-driven tests
- * Central Reporting Log (Cycle Execution Log) can be implemented to collect remote results of all machines in the test cycle

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