

admission test question Study Guide

Admission test question is a crucial component of the academic selection process, serving as a gateway for students aspiring to enter universities, colleges, or specialized programs. These questions are meticulously designed to evaluate a candidate's knowledge, critical thinking skills, problem-solving abilities, and overall readiness for higher education. Understanding the nature of admission test questions, their types, preparation strategies, and common challenges can significantly enhance a candidate's chances of success.

Understanding Admission Test Questions

What Are Admission Test Questions?

Admission test questions are the individual items or prompts within an entrance exam that assess a student's academic abilities. They vary depending on the institution and the program but generally aim to measure competencies in areas such as mathematics, science, language proficiency, logical reasoning, and sometimes, specialized subjects related to the chosen course.

The primary goal of these questions is to identify students who have the necessary foundational knowledge and cognitive skills to thrive in a higher education environment. Well-crafted questions are those that not only test rote memorization but also evaluate understanding, analytical skills, and application of knowledge.

Purpose of Admission Test Questions

- Assess Academic Readiness: Determine if candidates possess the required knowledge base.
- Evaluate Critical Thinking: Measure how well students can analyze and interpret information.
- Identify Potential: Recognize students with the aptitude for advanced studies.
- Ensure Fair Selection: Provide an objective basis for admission decisions.

Types of Admission Test Questions

Understanding the different types of questions used in admission tests can help candidates prepare more effectively.

Multiple Choice Questions (MCQs)

These are the most common type of questions in admission exams. They present a question or

statement followed by several answer options, with only one correct choice.

Advantages:

- Efficient to answer and grade.
- Cover a broad range of topics quickly.

Challenges:

- Require careful reading to avoid common pitfalls like distractors.

Short Answer Questions

Candidates are required to produce a brief written response, often a word, phrase, or number.

Advantages:

- Test specific knowledge and recall ability.

Challenges:

- More time-consuming; requires concise and accurate responses.

Essay or Descriptive Questions

These questions assess a candidate's ability to articulate ideas, organize thoughts, and demonstrate depth of understanding.

Advantages:

- Provide insight into critical thinking and writing skills.

Challenges:

- Subjective grading; requires good command of language and argumentation.

Problem-Solving Questions

Common in mathematics and science sections, these questions test analytical thinking through real-world or theoretical problems.

Advantages:

- Measure practical application of knowledge.

Challenges:

- Often require multi-step reasoning and calculations.

Logical Reasoning and Verbal Ability Questions

Assess reasoning, comprehension, and language skills.

Advantages:

- Evaluate cognitive skills beyond rote memorization.

Challenges:

- Can be tricky; require practice in pattern recognition and inference.

Strategies for Preparing for Admission Test Questions

Preparation is key to tackling admission test questions confidently. Here are effective strategies:

Understand the Syllabus and Exam Pattern

- Review the official exam syllabus thoroughly.
- Familiarize yourself with the types of questions and marking schemes.
- Practice with previous years' question papers or sample tests.

Build a Strong Foundation

- Strengthen core concepts in subjects like mathematics, science, and language.
- Use textbooks, online resources, and coaching materials.

Practice Regularly

- Solve mock tests under timed conditions to simulate exam day.
- Analyze mistakes and work on weak areas.

Develop Test-Taking Skills

- Learn time management techniques.
- Practice strategies for multiple-choice questions, such as elimination and educated guessing.
- Read questions carefully to avoid misinterpretation.

Focus on Critical Thinking and Application

- Engage in activities that foster analytical skills, such as puzzles, debates, and discussions.
- Practice applying concepts to real-world scenarios.

Maintain a Healthy Routine

- Ensure adequate rest, nutrition, and exercise.
- Avoid last-minute cramming; consistent study is more effective.

Common Challenges in Answering Admission Test Questions

Candidates often face specific challenges when attempting admission questions. Recognizing these can help in devising strategies to overcome them.

Time Management Issues

- Many students struggle to complete all questions within the allotted time.
- Solution: Practice pacing during mock tests and allocate time to each section.

Difficulty with Complex or Tricky Questions

- Some questions are designed to test depth of understanding and may seem confusing.
- Solution: Stay calm, read carefully, and don't dwell too long on difficult questions; mark and revisit if time permits.

Language Barriers

- For non-native speakers, language nuances can pose difficulties.
- Solution: Improve vocabulary and comprehension skills through reading and practice.

Stress and Anxiety

- Exam pressure can impair performance.
- Solution: Develop relaxation techniques, stay positive, and practice regularly to build confidence.

Conclusion

Admission test questions are vital tools in the selection process for higher education institutions. They serve not only to evaluate knowledge but also to gauge critical thinking, problem-solving skills, and overall readiness for academic challenges. Success in these exams requires comprehensive preparation, understanding of question formats, effective time management, and a calm, strategic approach. By familiarizing oneself with the types of questions, practicing regularly, and developing strong foundational knowledge, candidates can significantly improve their chances of achieving their academic goals. Remember, consistent effort and a positive mindset are key components of excelling in admission tests and securing a place in your desired program.

Admission Test Question: A Comprehensive Guide to Understanding, Preparing for, and Excelling in Entrance Examinations

Introduction

Admission test questions serve as the gatekeepers to academic opportunities across various levels of education, from high school to postgraduate programs. These questions are meticulously crafted assessments designed to evaluate a candidate's knowledge, skills, critical thinking, and problem-solving abilities. They are pivotal in determining whether an applicant meets the required standards for a particular course, institution, or scholarship. The significance of these questions cannot be overstated—they influence the trajectory of a student's academic journey and often shape future career paths.

In this comprehensive review, we will explore the nature of admission test questions, their types, the strategies for effective preparation, and how to approach these questions during exams. Whether you are a student gearing up for an entrance exam or an educator designing test questions, understanding the nuances of admission test questions is essential for success.

Understanding Admission Test Questions

The Purpose of Admission Test Questions

Admission test questions are designed with specific objectives:

- **Assessment of Knowledge:** To measure the candidate's grasp of core subject matter.
- **Evaluation of Critical Thinking:** To determine analytical and reasoning skills.
- **Predictive Validity:** To forecast the candidate's potential for success in future academic endeavors.
- **Standardization:** To provide a fair and uniform basis for comparison among applicants.

Types of Admission Test Questions

Admission test questions vary depending on the institution and the nature of the exam. The most common types include:

Multiple Choice Questions (MCQs)

- Present a question with several answer options.
- Require selecting the most appropriate choice.
- Widely used for their efficiency and ease of grading.

Short Answer Questions

- Require brief, direct responses.
- Test specific knowledge or quick problem-solving skills.

Essay or Descriptive Questions

- Demand detailed written responses.
- Assess critical thinking, articulation, and depth of understanding.

Problem-Solving or Quantitative Questions

- Focus on mathematical, logical, or analytical reasoning.
- Often found in science, engineering, or business entrance exams.

Verbal or Language-Based Questions

- Evaluate comprehension, vocabulary, grammar, and language skills.

Features and Characteristics of Effective Admission Test Questions

Clarity and Precision

- Well-crafted questions are clear, unambiguous, and specific.
- Avoid complex phrasing that might confuse candidates.

Relevance

- Questions should accurately reflect the skills and knowledge relevant to the course or program.
- Irrelevant or overly tricky questions can misrepresent a candidate's abilities.

Balanced Difficulty

- A mix of easy, moderate, and challenging questions ensures a fair assessment.
- Difficult questions test depth, while easy ones gauge basic understanding.

Fairness and Bias-Free

- Questions should be free from cultural, gender, or linguistic biases.
- Ensures equal opportunity for all candidates.

Alignment with Learning Objectives

- Questions must align with the curriculum and learning goals.

Preparing for Admission Test Questions

Developing a Study Plan

- Identify exam syllabus and question formats.
- Allocate sufficient time to cover each subject area.
- Incorporate regular practice tests and review sessions.

Practice Strategies

- Use previous years' question papers.
- Engage in timed practice to simulate exam conditions.
- Focus on weak areas identified through practice.

Resources and Materials

- Textbooks, reference guides, and online courses.
- Educational apps and practice question banks.
- Coaching classes or study groups for collaborative learning.

Tips for Effective Preparation

- Understand the exam pattern thoroughly.
- Practice under timed conditions.
- Review explanations for both correct and incorrect answers.
- Maintain consistency and avoid last-minute cramming.

Approaching Admission Test Questions

During the Exam

Reading Instructions Carefully

- Understand what each question requires before answering.
- Pay attention to keywords like "not," "except," or "best."

Time Management

- Allocate time proportionally to question difficulty.
- Do not spend too long on a single question; mark and revisit if time permits.

Answering Strategies

- Start with questions you find easiest to build confidence.
- Use process of elimination for MCQs.
- Keep track of time to ensure all questions are attempted.

Handling Different Question Types

- For multiple-choice questions: eliminate obviously wrong options first.
- For quantitative questions: write down given data and organize calculations.
- For essay questions: plan your answer briefly before writing to ensure coherence.

Common Challenges and How to Overcome Them

Anxiety and Stress

- Practice relaxation techniques and maintain a positive mindset.
- Prepare thoroughly to boost confidence.

Guessing and Second-Guessing

- Use logical deduction if unsure but avoid random guessing.
- Educate yourself on common question patterns.

Time Pressure

- Practice time-bound mock tests.
- Develop quick reading and problem-solving skills.

Language Barriers

- Improve vocabulary and comprehension skills regularly.
- Practice reading diverse texts to enhance understanding.

Evaluating and Analyzing Your Performance

Post-Exam Review

- Analyze which questions were answered correctly and why.
- Identify patterns in mistakes to focus on weak areas.

Continuous Improvement

- Use feedback from mock tests to refine strategies.
- Adjust study plans based on performance insights.

Conclusion

Admission test questions are more than mere hurdles?they are opportunities to showcase your knowledge, skills, and readiness for the next academic challenge. Mastering these questions requires strategic preparation, understanding the test structure, and effective time management. By focusing on clarity, relevance, and fairness in question design and approach, both test creators and takers can ensure a more accurate assessment of potential and capability. Whether you are preparing for an upcoming exam or developing questions for an assessment, embracing a systematic and informed approach will significantly increase your chances of success.

Remember, consistent practice, thorough understanding, and a calm mindset are the keys to excelling in admission tests. Equip yourself with the right strategies, resources, and attitude, and the path to your academic aspirations will become clearer and more attainable.

QuestionAnswer What are the common types of questions found in admission tests? Admission tests typically include multiple-choice questions, short answer questions, essay prompts, and sometimes practical or skill-based assessments, depending on the program or institution. How can I effectively prepare for an admission test? Effective preparation involves reviewing relevant subject material, practicing sample questions, understanding the test format, managing time efficiently, and taking mock tests to build confidence. Are there specific topics I should focus on for a university admission test? Yes, focus on the core subjects relevant to the program, such as mathematics, science, language skills, and general knowledge. Review the syllabus provided by the institution to prioritize key topics. What is the average time allotted to complete an admission test? The time varies by test and institution but typically ranges from 1 to 3 hours. It's important to practice under

timed conditions to improve speed and accuracy. How important are practice tests in preparing for admission exams? Practice tests are crucial as they help familiarize you with the question format, identify areas of weakness, improve time management, and build confidence for the actual exam. What strategies can I use to manage exam anxiety during an admission test? Relaxation techniques such as deep breathing, adequate preparation, positive visualization, and maintaining a healthy routine before the exam can help reduce anxiety and improve focus. Are there online resources or sample questions available for admission test preparation? Yes, many institutions and educational platforms provide free or paid sample questions, practice tests, and preparatory materials online to help candidates prepare effectively.

Related keywords: entrance exam, test questions, admission exam, entrance test, exam paper, admission assessment, exam questions, test preparation, admission criteria, exam syllabus

microsoft test manager tutorial

Microsoft Test Manager Tutorial: A Comprehensive Guide to Efficient Test Management

In the world of software development, ensuring the quality and reliability of your applications is paramount. Microsoft Test Manager (MTM) is a powerful tool designed to streamline the testing process, enabling teams to plan, execute, and track testing efforts with ease. Whether you're a beginner or looking to enhance your testing workflows, this **Microsoft Test Manager tutorial** will provide you with a step-by-step guide to harnessing MTM's full potential for your projects.

Understanding Microsoft Test Manager

Before diving into the tutorial, it's essential to grasp what Microsoft Test Manager is and how it integrates into the broader Visual Studio ecosystem.

What is Microsoft Test Manager?

Microsoft Test Manager is a test management tool integrated with Visual Studio Team Services (VSTS) and Azure DevOps. It provides an intuitive interface for managing test plans, creating and executing test cases, and tracking testing progress. MTM supports both manual and exploratory testing, making it versatile for various testing scenarios.

Key Features of Microsoft Test Manager

- Test Planning: Create and organize test plans, test suites, and test cases.
- Test Execution: Execute manual tests and record results efficiently.
- Test Tracking: Monitor testing progress and generate detailed reports.
- Exploratory Testing: Conduct ad-hoc testing sessions with session-based testing capabilities.
- Integration: Seamlessly connects with Azure DevOps for continuous testing workflows.

Setting Up Microsoft Test Manager

Getting started with MTM involves installing and configuring the tool for your environment.

Prerequisites

- Visual Studio Enterprise or Professional edition (with test management features).
- Azure DevOps account or TFS (Team Foundation Server) setup.
- Appropriate permissions to access test management features.

Installing Microsoft Test Manager

- Download the Visual Studio Installer from the official Microsoft website.
- Choose the edition that includes testing tools (e.g., Visual Studio Enterprise).
- During installation, select the "Testing Tools" workload to install MTM.
- Complete the installation and launch Visual Studio.
- Connect to your Azure DevOps project or TFS server within Visual Studio.

Creating and Managing Test Plans

A well-structured test plan is the foundation of successful testing. MTM simplifies organizing your testing efforts through test plans and suites.

Creating a Test Plan

- Open Microsoft Test Manager from Visual Studio or the Azure DevOps portal.
- Navigate to the "Test Plans" section.
- Click "New Test Plan" and provide a descriptive name, description, and start/end dates.
- Associate the test plan with a specific build or release if needed.
- Save the test plan to begin adding test cases.

Organizing Test Suites

Test suites help categorize test cases based on features, modules, or testing strategies.

- **Static Test Suites:** Manually organize test cases into logical groups.
- **Requirement-Based Test Suites:** Link test cases to specific requirements or user stories.
- **Query-Based Test Suites:** Dynamically generate test cases based on queries.

Adding Test Cases

- Within your test suite, click "New Test Case" or import existing cases.
- Define the test case steps, expected results, and associated requirements.
- Assign priority, owner, and other metadata to facilitate management.
- Save the test case to include it in your suite.

Executing Tests with Microsoft Test Manager

Once your test cases are organized, the next step is executing tests and recording results.

Manual Test Execution

- Open the test plan and select the test suite to execute.
- Click "Run" on the test case you wish to execute.
- Follow the test steps as documented, marking each step as "Passed" or "Failed."
- If a test fails, record detailed bug information directly from the test runner.
- Complete the test run, and the results will be saved automatically.

Using Action Recording and Data Collection

MTM allows capturing detailed logs and screenshots during test execution, aiding in defect analysis and reproducibility.

Exploratory Testing

For ad-hoc testing, MTM offers session-based testing:

- Schedule a testing session with session details.
- Conduct testing while documenting observations and findings.
- Record bugs and issues discovered during the session.

Tracking and Reporting Testing Progress

Effective test management requires insight into testing status and quality metrics.

Monitoring Test Results

- Navigate to the "Test Results" section in MTM or Azure DevOps.
- Review individual test case outcomes and overall progress.
- Filter results by tester, status, or test plan for detailed analysis.

Generating Reports

MTM provides various built-in reports to visualize testing status:

- Test Results Summary
- Test Case Progress and Trends
- Bugs and Defects Reports

Integrating with Bug Tracking

During testing, bugs can be logged directly from MTM, linked to specific failed test cases, ensuring traceability and quick resolution.

Advanced Tips and Best Practices

Maximize your testing efficiency with these expert tips:

Automate Repetitive Tests

Integrate MTM with automated testing frameworks like MSTest, NUnit, or Selenium to run automated tests alongside manual efforts.

Maintain Test Cases Regularly

Keep your test cases updated with application changes to ensure relevance and accuracy.

Use Tags and Filters

Leverage tags and filters to quickly locate and execute specific test cases based on criteria like

priority, feature, or owner.

Collaborate Effectively

Encourage team collaboration by sharing test plans and results, and conducting regular review meetings to discuss testing progress.

Conclusion

Microsoft Test Manager is an essential tool for teams aiming to implement structured and efficient testing workflows. From creating comprehensive test plans and organizing test suites to executing tests and tracking outcomes, MTM provides a centralized platform that enhances test visibility and quality assurance. By following this **Microsoft Test Manager tutorial**, you can streamline your testing process, improve defect detection, and deliver higher-quality software products. Remember to stay updated with the latest features and best practices to maximize your testing success with MTM.

Microsoft Test Manager tutorial: A Comprehensive Guide to Streamlining Your Testing Process

Microsoft Test Manager (MTM) is a powerful tool integrated within the Azure DevOps suite, designed to facilitate efficient test planning, management, and execution. Whether you are a QA professional, a developer, or a project manager, mastering MTM can significantly enhance your testing workflows, improve defect detection rates, and ensure higher quality software releases. This tutorial aims to provide an in-depth overview of Microsoft Test Manager, guiding you through its features, setup, best practices, and real-world applications.

Introduction to Microsoft Test Manager

Microsoft Test Manager is a dedicated testing management environment that helps teams plan, execute, and track testing activities seamlessly. Originally part of Visual Studio Test Professional, MTM is now integrated within Azure DevOps, offering a unified platform for Agile testing, exploratory testing, and manual test case management.

Key Features of Microsoft Test Manager

- Test Planning: Create and organize test plans, test suites, and test cases.
- Test Execution: Run manual tests, record results, and capture screenshots.
- Test Management: Track defects, manage test configurations, and generate reports.
- Integration: Seamlessly connect with Azure DevOps for continuous integration and automated testing workflows.

- Exploratory Testing: Record exploratory sessions with detailed notes and recordings.

Setting Up Microsoft Test Manager

Before diving into testing, proper setup of MTM is essential.

Prerequisites

- A valid Azure DevOps account with appropriate permissions.
- Installed Visual Studio Test Professional or access via Azure DevOps.
- Access to a test environment or lab machines.

Installation and Configuration

- Download and Install: Download Microsoft Test Manager from the Visual Studio downloads page or via Azure DevOps.
- Connect to Azure DevOps: Launch MTM and connect it to your Azure DevOps project by signing in with your credentials.
- Configure Test Environments: Set up test machines, configurations, and network environments to align with your testing needs.

Tips for Effective Setup

- Organize your test plans hierarchically for easier management.
- Maintain a clear mapping between test environments and real-world configurations.
- Regularly update test artifacts to ensure they reflect current application versions.

Creating and Managing Test Plans

Test planning is the foundation of effective testing.

Creating a Test Plan

- In MTM, navigate to the "Test Plans" section.
- Click "New Test Plan" and provide a descriptive name, start/end dates, and any relevant details.
- Assign ownership and stakeholders.

Organizing Test Suites

- Static Test Suites: Manually added test cases grouped logically.
- Requirement-based Suites: Linked to user stories or requirements for traceability.
- Query-based Suites: Dynamic grouping based on queries.

Best Practices

- Break down large test plans into smaller, manageable suites.
- Link test cases to user stories or bugs for better traceability.
- Regularly review and update test plans to reflect current project scope.

Designing and Managing Test Cases

Creating effective test cases is critical to uncovering defects early.

Writing Test Cases

- Clear, concise steps with expected results.
- Use descriptive titles and tags for easy filtering.
- Include preconditions and postconditions.

Reusing Test Cases

- Modularize test steps for reuse across different test cases.
- Attach relevant documentation, screenshots, or scripts.

Organizing Test Cases

- Group related test cases into shared test suites.
- Use labels and tags for categorization.

Tips for Effective Test Cases

- Prioritize test cases based on risk and impact.

- Keep test cases up-to-date with application changes.
- Incorporate exploratory testing notes within test cases or as separate sessions.

Test Execution and Result Recording

Executing tests efficiently and accurately recording results is vital.

Running Manual Tests

- Select a test case from your test suite.
- Follow each step, observing the actual behavior.
- Record outcomes: Passed, Failed, Blocked, or Not Applicable.
- Capture screenshots or record videos if needed.

Recording Defects

- Link defects directly to failed test cases.
- Provide detailed descriptions, steps to reproduce, and severity.
- Attach logs or screenshots to aid debugging.

Managing Test Runs

- Use test configurations to run multiple test cases under different environments.
- Schedule and assign test runs to team members.
- Monitor real-time progress and results.

Pros and Cons of Test Execution Features

Pros:

- Streamlined process for manual testing.
- Rich media capture for detailed documentation.
- Easy defect linkage and traceability.

Cons:

- Manual process can be time-consuming for large test suites.
- Limited automation capabilities within MTM itself.

Integrating Automated Testing with Microsoft Test Manager

While MTM excels at manual testing, integration with automated testing frameworks enhances overall efficiency.

Integration with Visual Studio Test Automation

- Use Visual Studio Test tools to develop automated test scripts.
- Link automated tests to test cases in MTM.
- Run automated tests as part of continuous integration pipelines.

Benefits of Integration

- Reduces manual effort.
- Ensures consistency between manual and automated testing.
- Facilitates comprehensive test coverage.

Limitations

- Setup can be complex for beginners.
- Requires scripting knowledge for automation.

Reporting and Tracking

Effective reporting provides insights into testing progress and quality metrics.

Built-in Reports

- Test Run Summary
- Test Results Trend
- Defect Status and Age
- Requirements Traceability Matrix

Custom Reports

- Use Azure DevOps Analytics or Power BI for tailored dashboards.
- Export data for external analysis.

Best Practices

- Regularly review reports to identify bottlenecks.
- Use metrics to prioritize testing efforts.
- Maintain up-to-date dashboards for stakeholder visibility.

Best Practices for Using Microsoft Test Manager

- Plan Early: Incorporate testing early in the development lifecycle.
- Maintain Test Artifacts: Keep test cases and plans updated with application changes.
- Leverage Linkages: Connect requirements, test cases, defects, and build versions.
- Automate Where Possible: Use automation to handle repetitive and regression testing.
- Collaborate: Engage team members through shared test plans and results.
- Review Regularly: Conduct test reviews and retrospectives for continuous improvement.

Common Challenges and How to Overcome Them

Challenge: Managing Large Test Suites

Solution: Break down into smaller, manageable suites; use query-based suites for dynamic grouping.

Challenge: Keeping Test Cases Up-to-date

Solution: Establish a review cycle aligned with development sprints; assign ownership.

Challenge: Integration Complexity

Solution: Invest in automation and continuous integration pipelines; use documentation and training.

Challenge: Limited Automation within MTM

Solution: Use external automation tools integrated with Azure DevOps, such as Selenium or Coded UI.

Conclusion

Microsoft Test Manager is a robust tool that, when used effectively, can significantly boost your testing efficiency, coverage, and traceability. Its comprehensive features for test planning, execution, defect management, and reporting make it indispensable for teams adopting Agile and DevOps practices. While there are challenges, especially around automation and managing large test repositories, with proper setup, training, and best practices, MTM can become a cornerstone of your software quality assurance process.

By following this tutorial, you should now have a clear understanding of how to leverage Microsoft Test Manager to streamline your testing operations, improve collaboration, and ultimately deliver higher quality software to your users. Remember, continuous learning and adaptation are key to maximizing the benefits of MTM in your projects.

Question What are the main features of Microsoft Test Manager (MTM)? Microsoft Test Manager (MTM) provides features such as test planning, manual test execution, test case management, bug tracking integration, and collaboration tools to streamline the testing process within Visual Studio and Azure DevOps. **Answer** How do I create and organize test plans in Microsoft Test Manager? In MTM, you can create test plans by navigating to the 'Test Plans' hub, clicking 'New Test Plan,' and defining its name and details. You can then add test suites and test cases to organize tests based on requirements, features, or test types for better management. Can I automate tests using Microsoft Test Manager, and how is it integrated with other tools? While MTM primarily supports manual testing, it integrates seamlessly with Visual Studio and Azure DevOps, enabling automation through test scripts and frameworks like MSTest, Selenium, or CodedUI. Automated tests can be linked to test cases for comprehensive test management. What are the best practices for using Microsoft Test Manager effectively? Best practices include maintaining detailed and reusable test cases, organizing tests into logical suites, utilizing shared steps for common actions, integrating with bug tracking, and regularly updating test plans based on project changes to ensure thorough testing coverage. Is Microsoft Test Manager suitable for Agile development environments? Yes, MTM is well-suited for Agile teams as it supports iterative testing, easy integration with Azure DevOps Agile tools, and flexible test planning, allowing teams to adapt testing activities to sprint cycles and continuous delivery workflows.

Related keywords: Microsoft Test Manager, TFS testing, test planning, test case management, automated testing, test execution, bug tracking, test lab management, test reporting, test automation tools

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