

hesi exit exam practice test Study Guide

Hesi Exit Exam Practice Test

Preparing for the HESI (Health Education Systems, Inc.) Exit Exam is a critical step for nursing students nearing graduation. This comprehensive assessment evaluates your readiness to enter the professional nursing workforce by testing your knowledge across various clinical subjects. To excel on the exam, engaging in thorough practice through a well-structured HESI Exit Exam Practice Test is essential. This guide provides valuable insights into the exam format, effective preparation strategies, and resources to help you succeed.

Understanding the HESI Exit Exam

What Is the HESI Exit Exam?

The HESI Exit Exam is a standardized assessment designed for nursing students at the culmination of their education. It measures competency in key areas such as Fundamentals, Medical-Surgical, Pediatrics, Maternity, Mental Health, and Pharmacology. The exam results often influence licensing eligibility and can impact employment opportunities.

Format and Structure of the Exam

The exam typically consists of:

- Multiple-choice questions (most common)
- Number of questions: Generally ranges from 100 to 150, depending on the program
- Time limit: Usually 3 hours

Scoring and Results

Your scores are compared against a national benchmark and your program's standards. A higher score indicates better preparedness. Passing the exam is often a graduation requirement, and many programs set a minimum passing score (e.g., 850-900 out of 1000).

Importance of a HESI Exit Exam Practice Test

Why Practice Makes Perfect

Engaging with practice tests allows students to:

- Familiarize themselves with the exam format and question types
- Identify areas of strength and weakness
- Build confidence and reduce exam anxiety
- Develop effective time management skills

Benefits of Using Practice Tests

- Realistic simulation of exam conditions
- Opportunity to review rationales for correct and incorrect answers
- Tracking progress over multiple attempts
- Enhancing critical thinking and clinical judgment skills

How to Find and Use the Best HESI Exit Exam Practice Tests

Sources of Practice Tests

There are various resources available:

- Official HESI practice exams provided by Elsevier
- Online educational platforms offering free or paid practice tests
- Review books and study guides tailored for the HESI exam
- Peer study groups and academic support centers

Choosing the Right Practice Test

When selecting a practice test, consider:

- Alignment with your exam version and content areas
- Inclusion of detailed rationales for answers
- Availability of performance feedback
- User reviews and recommendations from fellow students

Effective Strategies for Using Practice Tests

- Schedule regular practice sessions leading up to the exam date
- Simulate testing conditions by timing yourself and minimizing distractions
- Review explanations thoroughly to understand your mistakes
- Focus on weak areas identified in practice tests
- Use practice results to develop targeted study plans

Key Content Areas Covered in HESI Practice Tests

Fundamentals of Nursing

Topics include:

- Patient safety and infection control
- Vital signs assessment
- Basic nursing skills and procedures
- Nursing ethics and legal considerations

Medical-Surgical Nursing

Focus areas:

- Cardiovascular, respiratory, gastrointestinal, and renal systems
- Postoperative care
- Infection management

Pediatrics

Key topics:

- Growth and development milestones
- Pediatric assessments
- Common childhood illnesses

Maternity and Women's Health

Includes:

- Pregnancy and labor stages
- Postpartum care
- Newborn assessment

Mental Health

Focuses on:

- Psychiatric disorders
- Therapeutic communication techniques
- Patient safety and crisis intervention

Pharmacology

Topics include:

- Medication calculations
- Drug classifications
- Side effects and adverse reactions
- Patient education about medications

Preparation Tips for the HESI Exit Exam

Create a Study Schedule

- Dedicate specific days to different content areas
- Balance studying with rest to avoid burnout
- Incorporate review sessions and practice tests

Utilize Active Learning Techniques

- Practice with flashcards and quizzes
- Teach concepts to peers or through self-explanation
- Engage in case studies and scenario-based questions

Focus on Rationales and Explanations

- Understanding why an answer is correct helps reinforce learning
- Review rationales provided in practice tests and study resources

Stay Healthy and Rested

- Maintain proper nutrition and hydration
- Ensure adequate sleep before the exam day
- Manage stress through relaxation techniques

Final Thoughts

Preparing for the HESI Exit Exam requires dedication, strategic studying, and practical preparation through practice tests. By engaging with high-quality practice exams, reviewing rationales, and focusing on weak areas, students can significantly improve their chances of passing with confidence. Remember, the goal of the practice test is not just to simulate the exam experience but to reinforce learning and boost your readiness to become a competent, confident nurse. Invest time now in preparing effectively, and you'll be well on your way to a successful nursing career.

HESI Exit Exam Practice Test: An In-Depth Analysis for Nursing Students and Educators

The HESI Exit Exam Practice Test has become a pivotal component in nursing education, serving as both a preparatory tool and a benchmark for student readiness to transition from academic coursework to professional practice. As the healthcare landscape evolves, so does the significance of thoroughly understanding the role, structure, and effectiveness of these practice tests. This article provides a comprehensive review of the HESI Exit Exam Practice Test, exploring its purpose, design, benefits, limitations, and best practices for utilization.

Understanding the HESI Exit Exam: Purpose and Significance

The Role of the HESI Exit Exam in Nursing Education

The Health Education Systems, Inc. (HESI) Exit Exam is a standardized assessment designed to evaluate a nursing student's readiness to graduate and take the NCLEX-RN or NCLEX-PN licensing examinations. Its primary purpose is to measure a student's competency across core nursing knowledge areas, critical thinking skills, and clinical judgment abilities.

Most nursing programs incorporate the HESI Exit Exam as a culminating assessment, often contributing significantly to final course grades. Its predictive validity helps educators identify students who may need additional support before licensure, thereby enhancing overall program quality and patient safety.

Why Is Practice Testing Critical?

Practice tests are integral to the HESI Exit Exam process for several reasons:

- Familiarization: They familiarize students with the exam format, question styles, and time constraints.
- Self-Assessment: Students can identify strengths and weaknesses, guiding targeted review.
- Confidence Building: Regular practice reduces test anxiety and boosts confidence.
- Performance Prediction: Practice scores often correlate with actual exam success, enabling early intervention if needed.

Design and Structure of the HESI Exit Exam Practice Test

Content Domains Covered

The HESI Exit Exam Practice Test spans multiple core areas, typically including:

- Adult Medical-Surgical Nursing: 30-40%
- Fundamentals of Nursing: 15-20%
- Maternal-Child Nursing: 10-15%
- Psychiatric Nursing: 5-10%
- Nutrition: 5%
- Pharmacology: 10-15%
- Leadership and Management: 5-10%
- Prioritization and Delegation: Embedded throughout

(Note: Percentages may vary based on the specific version or institution.)

Question Formats and Features

The practice test mirrors the actual HESI exam with various question formats, including:

- Multiple-choice questions
- Select-all-that-apply questions
- Fill-in-the-blank
- Hotspot questions
- Graphic options

This diversity ensures students are well-prepared for the actual exam environment.

Scoring and Feedback

Immediate scoring is typically provided, highlighting areas of strength and weakness. Some practice tests offer detailed rationales for each question, further enhancing learning through explanation and clarification.

Benefits of Using the HESI Exit Exam Practice Test

Enhances Test Readiness

Regular practice allows students to adapt to the exam format and develop effective test-taking strategies, such as time management and question analysis.

Identifies Knowledge Gaps

Detailed feedback helps students pinpoint specific content areas requiring further review, making study sessions more efficient.

Reduces Anxiety and Builds Confidence

Familiarity with the exam process fosters confidence, leading to improved performance on the actual test.

Predicts Licensing Exam Success

Research indicates a strong correlation between practice test scores and actual NCLEX outcomes, enabling proactive academic support.

Supports Curriculum Evaluation and Improvement

Aggregate data from practice tests can inform educators about common student challenges, guiding curriculum adjustments.

Limitations and Challenges of the HESI Exit Exam Practice Test

Potential for Over-Reliance

Students may become overly dependent on practice exams, neglecting broader clinical experiences and holistic learning.

Question Bank Limitations

While comprehensive, practice tests may not encompass every possible question style or content nuance, risking a false sense of preparedness.

Variability in Practice Test Quality

Not all practice tests are created equal; the quality of questions and rationales can vary between providers, affecting their educational value.

Cost and Accessibility Barriers

Some practice tests require subscriptions or purchase fees, potentially limiting access for some students.

Best Practices for Utilizing HESI Exit Exam Practice Tests Effectively

Integrate Practice Testing into a Broader Study Plan

Students should view practice tests as one component of a comprehensive review strategy, including:

- Review of course content
- Clinical simulations
- Group study sessions
- Utilizing additional resources like review books and online modules

Analyze Performance and Focus on Weak Areas

Post-practice test analysis is critical. Students should:

- Review rationales for incorrect answers
- Revisit content areas where scores were low
- Seek clarification from instructors or mentors

Schedule Multiple Practice Attempts

Repeated testing over time helps reinforce knowledge, improve test-taking skills, and track progress.

Simulate Test Conditions

To maximize realism, students should take practice exams under timed conditions, free from distractions, to mimic actual exam settings.

Use Practice Tests as a Motivational Tool

Progress tracking through practice tests can motivate students to maintain consistent study habits and stay focused on their goals.

Emerging Trends and Future Directions

Digital and Adaptive Practice Tests

With technological advancements, many institutions now offer online, adaptive practice tests that adjust question difficulty based on student responses, providing a tailored learning experience.

Integration with Learning Analytics

Data-driven insights from practice test results can personalize learning pathways, ensuring targeted remediation and mastery.

Supplementing with Virtual Simulations

Augmenting practice tests with virtual clinical simulations enhances critical thinking and decision-making skills in realistic scenarios.

Conclusion: Evaluating the Role of HESI Exit Exam Practice Tests in Nursing Education

The HESI Exit Exam Practice Test stands as an essential tool within the spectrum of nursing education, bridging theoretical knowledge and practical readiness. When used thoughtfully and strategically, practice tests can significantly improve student performance, boost confidence, and identify learning gaps before students face the high-stakes licensing exam.

However, their effectiveness hinges on proper integration into a comprehensive study plan, quality of question banks, and ongoing feedback. As nursing education continues to evolve with technology and innovation, practice testing will likely become more personalized, interactive, and aligned with real-world clinical demands.

For educators and students alike, embracing the benefits of the HESI Exit Exam Practice Test while

remaining mindful of its limitations will pave the way for more competent, confident, and prepared nursing professionals ready to meet the demands of modern healthcare.

QuestionAnswer What is the best way to prepare for the HESI Exit Exam practice test? The best way to prepare is to review all subject areas thoroughly, take practice tests regularly to identify weak areas, and utilize study guides and resources specifically designed for the HESI Exit Exam. How many questions are typically included in the HESI Exit Exam practice test? The HESI Exit Exam practice test usually contains around 150 to 200 multiple-choice questions, covering topics such as nursing fundamentals, pharmacology, and clinical judgment. Are HESI Exit Exam practice tests predictive of actual exam performance? Yes, taking practice tests can help predict your performance, identify knowledge gaps, and boost your confidence before taking the actual exam. Where can I find reliable HESI Exit Exam practice tests online? Reliable practice tests can be found on official HESI websites, trusted nursing education platforms, and through review books that include practice questions modeled after the actual exam. How should I analyze my results after completing a HESI Exit Exam practice test? Review your answers carefully to understand mistakes, focus on areas where you scored lower, and revise those topics to improve your overall performance before the actual exam.

Related keywords: HESI exit exam, HESI practice test, HESI review, nursing exit exam, HESI prep, HESI sample questions, nursing licensure exam, HESI study guide, exit exam practice, nursing exam preparation

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.

QuestionAnswer 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. 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

Read the full article online: [Microsoft Test Manager Tutorial](#)