

ISACHMM PRACTICE TEST FOR CENTRAL STE Document

isachmm practice test for central ste

Introduction to the isachmm Practice Test for Central STE

The isachmm practice test for Central STE (Science, Technology, Engineering) is an essential resource for aspiring professionals preparing for the Society of American Certified Healthcare Materials Management (SA CHMM) certification exam, particularly focusing on the Central Standard Test Environment (STE). This practice test serves as a comprehensive tool designed to simulate the actual exam experience, helping candidates assess their knowledge, identify gaps, and build confidence. As the healthcare supply chain and materials management fields evolve, staying well-prepared is crucial, and the isachmm practice test provides an effective pathway to mastering core concepts and competencies required for success.

Understanding the Central STE and Its Significance

What is the Central STE?

The Central STE refers to a standardized testing environment that aligns with the core principles and knowledge areas covered in the SA CHMM certification. It emphasizes practical understanding, critical thinking, and application of materials management principles within healthcare settings. The test is designed to evaluate a candidate's ability to manage supply chain operations, ensure compliance with regulations, and implement best practices in healthcare materials management.

Importance of the Practice Test

Utilizing the isachmm practice test offers multiple benefits:

- Simulates the actual exam environment, helping reduce test anxiety.
- Identifies strengths and weaknesses in knowledge areas.
- Enhances time management skills during the exam.
- Reinforces understanding of key concepts and terminology.
- Boosts confidence leading to improved performance.

Features of the isachmm Practice Test for Central STE

Comprehensive Coverage of Topics

The practice test encompasses all major domains tested in the Central STE exam, including:

- Supply Chain Management
- Inventory Control and Management
- Regulatory and Compliance Issues
- Procurement and Purchasing
- Material Handling and Storage
- Healthcare Materials Management Systems
- Risk Management and Safety Protocols

Realistic Exam Simulation

The practice test is designed to mimic the format, question types, and difficulty level of the actual exam. This includes:

- Multiple-choice questions
- Scenario-based questions
- Timed sections to simulate real-time pressure

Immediate Feedback and Detailed Explanations

Post-exam, candidates receive:

- Scores indicating performance levels
- Correct answers with detailed explanations
- Recommendations for further study based on performance

How to Effectively Use the isachmm Practice Test for Central STE

Preparation Strategies

To maximize the benefits of the practice test, consider the following strategies:

- Review the exam content outline thoroughly before starting.
- Use the practice test as a diagnostic tool early in your study plan.

- Simulate exam conditions by adhering to time limits and minimizing distractions.
- Analyze your results carefully, focusing on areas needing improvement.
- Incorporate additional study resources to strengthen weak areas.

Post-Test Review and Study Plan

After completing the practice test:

- Review all questions, especially those answered incorrectly.
- Understand the rationale behind correct answers.
- Adjust your study plan based on identified gaps.
- Repeat the practice test periodically to track progress and reinforce learning.

Benefits of Regular Practice with the isachmm Test

Enhances Knowledge Retention

Consistent practice helps reinforce key concepts and terminology, making them more accessible during the actual exam.

Builds Exam Confidence

Familiarity with the test format and question style reduces anxiety and increases confidence levels.

Improves Time Management

Timed practice sessions teach candidates how to allocate time effectively across different sections.

Tracks Progress and Readiness

Regular testing allows candidates to monitor their improvement, ensuring they are prepared for the actual exam.

Additional Resources to Complement the Practice Test

Study Guides and Textbooks

Invest in reputable materials covering the core domains of healthcare materials management.

Online Courses and Workshops

Participate in training programs that offer in-depth coverage of exam topics and hands-on exercises.

Peer Study Groups

Joining study groups facilitates discussion, clarification of doubts, and shared learning experiences.

SA CHMM Exam Blueprints and Sample Questions

Utilize official blueprints and sample questions provided by SA CHMM to align your preparation with exam expectations.

Conclusion: Isachmm Practice Test as a Critical Preparation Tool

The isachmm practice test for Central STE is an invaluable resource for candidates aiming to achieve SA CHMM certification. Its comprehensive coverage, realistic simulation, immediate feedback, and strategic insights make it a cornerstone of effective exam preparation. By integrating regular practice sessions, reviewing detailed explanations, and supplementing with additional study resources, candidates can significantly enhance their readiness. Ultimately, diligent use of the isachmm practice test not only improves knowledge and skills but also instills the confidence necessary to excel in the certification exam and advance in the healthcare materials management field.

Isachmm Practice Test for Central STE: A Comprehensive Guide to Preparing Effectively

Preparing for the ISACHMM Practice Test for Central STE can seem like a daunting task, especially given the importance of the exam in validating your expertise and advancing your career. Whether you're a seasoned professional or a newcomer stepping into the field, understanding what the practice test entails, how to approach it, and effective study strategies can significantly boost your confidence and performance on exam day. In this comprehensive guide, we will break down everything you need to know about the ISACHMM Practice Test for Central STE, offering insights, tips, and resources to help you succeed.

What is the ISACHMM Practice Test for Central STE?

The ISACHMM Practice Test for Central STE is a preparatory assessment designed for candidates aiming to demonstrate their knowledge and skills in the field of safety, health, and environmental management as it relates to the Central region of the Society of American Candle and Hazardous Materials Managers (ISACHMM). This practice exam simulates the real testing environment, providing candidates with an opportunity to gauge their readiness, identify areas for improvement, and familiarize themselves with the exam format.

Purpose and Importance

- **Assessment of Knowledge:** The practice test evaluates your understanding of core safety management principles, regulations, and best practices.
- **Familiarization:** It helps you get accustomed to the types of questions, time constraints, and exam structure.
- **Identify Weak Areas:** By reviewing your results, you can focus your study efforts more effectively.
- **Boost Confidence:** Regular practice reduces exam anxiety and increases your likelihood of success.

Understanding the Structure of the Practice Test

Before diving into preparation, it's crucial to understand the typical structure of the ISACHMM Practice Test for Central STE.

Format and Content

- **Number of Questions:** Usually around 100 multiple-choice questions.
- **Duration:** Approximately 2-3 hours to complete.
- **Topics Covered:**
 - Safety management systems
 - Hazard identification and risk assessment
 - Regulatory frameworks (OSHA, EPA, etc.)
 - Environmental compliance
 - Emergency preparedness and response
 - Incident investigation and reporting
 - Leadership and communication in safety programs

Question Breakdown

Questions are generally categorized into different difficulty levels and cover both theoretical knowledge and practical application. Some may involve scenario-based questions requiring critical thinking.

Strategies for Effective Practice Test Preparation

Successfully preparing for the ISACHMM Practice Test for Central STE involves more than just taking practice exams. Here are proven strategies to maximize your study efforts:

- Familiarize Yourself with the Exam Content

- Review the official exam outline and syllabus.
- Identify key topics and concepts frequently tested.
- Gather relevant study materials, including textbooks, online courses, and industry publications.

- Take Multiple Practice Tests

- Start with a diagnostic test to assess your current knowledge.
- Gradually increase the difficulty and number of practice exams.
- Simulate real test conditions: time yourself, avoid distractions, and adhere to the exam environment.

- Review and Analyze Your Results

- After each practice test, thoroughly review incorrect answers.
- Understand why you got certain questions wrong to avoid repeating mistakes.
- Keep track of common errors or topics that need more attention.

- Focus on Weak Areas

- Allocate more study time to topics where you perform poorly.
- Use targeted resources like tutorials, webinars, or peer discussions.
- Reinforce foundational concepts before moving to advanced topics.

- Develop Test-Taking Skills

- Practice time management to ensure you can answer all questions within the allotted period.
- Learn to identify keywords in questions that point toward the correct answer.
- Practice educated guessing strategies for difficult questions.

Recommended Study Resources

To prepare effectively, gather credible and comprehensive resources.

- Official ISACHMM Study Guides: The society often provides recommended reading materials.
- Regulatory Documents: OSHA standards, EPA guidelines, and other relevant regulations.
- Industry Publications: Journals, articles, and case studies on safety management.
- Online Courses and Webinars: Many organizations offer preparatory courses tailored for the Central STE exam.
- Practice Tests: Use reputable practice exams that mimic the format and difficulty level of the actual test.

Tips for Exam Day Success

The day of the exam requires focus and confidence. Here are some tips to help you perform at your best:

- Get Adequate Rest: Ensure you are well-rested before the exam day.
- Eat a Nutritious Meal: Fuel your brain with healthy food to maintain concentration.
- Arrive Early: Plan your route to the testing center or set up your environment if taking the test online.
- Bring Necessary Materials: Identification, confirmation emails, pens, and any permitted tools.
- Stay Calm and Focused: Take deep breaths, read questions carefully, and manage your time wisely.

Post-Exam Review and Next Steps

After completing the ISACHMM Practice Test for Central STE, reflect on your performance:

- Review your results and identify persistent weak areas.
- Adjust your study plan accordingly.
- Continue practicing with additional exams until you feel confident.
- Remember, the practice test is a tool to guide your preparation, not just a benchmark.

Once you feel ready, schedule your actual exam. Confidence gained through diligent preparation and practice can significantly improve your chances of success.

Final Thoughts

The ISACHMM Practice Test for Central STE is an essential component of effective exam

preparation. By understanding the exam structure, employing strategic study methods, and consistently practicing, you position yourself for success. Remember, preparation is a journey?embrace the process, utilize the available resources, and stay committed to your goal. Achieving certification not only validates your expertise but also opens doors to new professional opportunities in the safety and environmental management field.

Good luck, and prepare thoroughly!

Question What is the purpose of the ISACHMM practice test for Central STE? The ISACHMM practice test for Central STE is designed to help candidates prepare effectively for the certification exam by simulating real exam conditions and assessing their knowledge in hazardous materials management. **How can I benefit from taking the ISACHMM practice test for Central STE?** Taking the practice test helps identify your strengths and weaknesses, improves your understanding of key concepts, boosts confidence, and increases your chances of passing the actual Central STE exam. **Are the questions in the ISACHMM practice test for Central STE reflective of the actual exam?** Yes, the practice test questions are carefully designed to mirror the format, difficulty level, and topics of the real Central STE certification exam to provide an accurate preparation experience. **Where can I access the ISACHMM practice test for Central STE?** The practice test is available through official ISACHMM resources, authorized training providers, or online platforms offering certification preparation materials. **How many questions are included in the ISACHMM practice test for Central STE?** The practice test typically includes 100 to 150 questions covering various topics relevant to hazardous materials management and safety protocols for Central STE candidates. **Is there a time limit when taking the ISACHMM practice test for Central STE?** Yes, the practice test usually mimics the real exam's time constraints, which helps candidates practice time management skills essential for success on the actual test. **Can I retake the ISACHMM practice test for Central STE multiple times?** Absolutely, retaking the practice test multiple times allows you to improve your understanding, track progress, and build confidence before the actual exam. **What topics are covered in the ISACHMM practice test for Central STE?** The practice test covers topics such as hazardous materials identification, safety procedures, regulatory compliance, emergency response, and environmental protection relevant to Central STE certification. **Is the ISACHMM practice test for Central STE suitable for beginners?** Yes, the practice test is useful for candidates at all levels, as it provides a comprehensive review and helps beginners familiarize themselves with exam content and format. **How should I use the results of the ISACHMM practice test for Central STE?** Use the results to identify areas needing improvement, review relevant study materials, and focus your preparation efforts to increase your chances of passing the Central STE exam on the first attempt.

Related keywords: ISACHMM, practice test, Central STE, security management, certification exam, professional exam prep, homeland security, security management test, ISACHMM exam, certification practice questions

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](#)