

TURF AND ORNAMENTAL PRACTICE TEST Reference

turf and ornamental practice test is an essential component for professionals and students in the turf management and ornamental horticulture industries. This comprehensive assessment evaluates the knowledge and practical skills necessary to excel in maintaining healthy turfgrass and ornamental plants. Whether you're preparing for certification exams or seeking to improve your understanding of turf and ornamental practices, a well-designed practice test can be invaluable. In this article, we will explore the significance of the turf and ornamental practice test, key topics covered, tips for effective preparation, and how to utilize practice tests to achieve optimal results.

Understanding the Turf and Ornamental Practice Test

What is the Turf and Ornamental Practice Test?

The turf and ornamental practice test is a standardized examination designed to assess knowledge in various aspects of turfgrass and ornamental plant management. It typically covers topics such as plant identification, pest management, irrigation, fertilization, soil science, landscape maintenance, and safety procedures.

This test serves multiple purposes:

- Certification for turf and ornamental professionals
- Benchmarking knowledge for employers
- Identifying areas for further study
- Ensuring industry standards are maintained

Who Should Take the Test?

The test is ideal for:

- Turf management professionals
- Landscape horticulturists
- Students in turf and ornamental courses
- Maintenance personnel working in commercial or residential landscapes
- Anyone seeking certification or professional development in turf and ornamental practices

Key Topics Covered in the Practice Test

A typical turf and ornamental practice test encompasses a broad range of topics. Understanding these areas can guide effective preparation.

1. Turfgrass Management

- Types of turfgrass species and cultivars
- Establishment and renovation techniques
- Mowing practices and equipment
- Aeration and dethatching
- Overseeding and sodding

2. Ornamental Plant Identification and Selection

- Common ornamental trees, shrubs, and perennials
- Native versus non-native species
- Selection criteria based on site conditions and aesthetics

3. Soil Science and Nutrient Management

- Soil testing procedures
- Soil amendments and conditioners
- Fertilizer types and application rates
- Organic versus synthetic fertilizers

4. Pest and Disease Management

- Identification of common pests and diseases
- Integrated Pest Management (IPM) principles
- Use of pesticides, herbicides, and fungicides
- Monitoring and record-keeping

5. Irrigation and Water Management

- Irrigation system types and operation

- Water conservation techniques
- Scheduling based on weather and plant needs
- Troubleshooting common irrigation issues

6. Landscape Maintenance and Design

- Pruning and trimming techniques
- Mulching and bed maintenance
- Plant installation and transplanting
- Landscape design principles

7. Safety and Environmental Considerations

- Safe handling of chemicals
- Personal protective equipment
- Environmental regulations and best practices
- Waste management

Preparing for the Turf and Ornamental Practice Test

Effective Study Strategies

- Review official study guides and manuals
- Attend training workshops or courses
- Use flashcards for plant identification and terminology
- Study with peers or join study groups
- Practice with previous or simulated tests

Utilizing Practice Tests

Practice tests are an invaluable resource for exam preparation:

- Identify your strengths and weaknesses
- Familiarize yourself with the test format and question types
- Improve time management skills
- Reinforce learning through active recall
- Reduce exam anxiety

Tips for Taking Practice Tests

- Take practice tests under timed conditions
- Review incorrect answers thoroughly
- Focus on understanding concepts, not just memorization
- Keep a record of progress and areas needing improvement
- Continue practicing until confident with all topics

Benefits of the Turf and Ornamental Practice Test

Engaging with practice tests offers numerous benefits:

- Enhances retention of key concepts
- Builds confidence for the actual exam
- Helps avoid surprises during the real test
- Clarifies complex topics through repeated exposure
- Supports lifelong learning and professional development

Additional Resources for Preparation

To maximize your chances of success, consider supplementing practice tests with:

- Industry publications and journals
- Online tutorials and webinars
- Certification program materials
- Local workshops and seminars
- Consultation with industry experts

Conclusion

The **turf and ornamental practice test** is a crucial step toward achieving professional recognition and competence in turf and landscape management. By understanding the core topics covered, leveraging effective study techniques, and utilizing practice tests strategically, candidates can enhance their knowledge, confidence, and performance. Remember, consistent preparation and a thorough grasp of practical and theoretical concepts are key to excelling in this comprehensive assessment. Whether you aim for certification or simply wish to deepen your expertise, investing time in practice tests will significantly improve your proficiency and help you succeed in the competitive field of turf and ornamental management.

Turf and Ornamental Practice Test: An In-Depth Review and Guide

In the landscape of turf management and ornamental horticulture, the turf and ornamental practice test stands as a vital assessment tool for professionals, students, and enthusiasts alike. This exam evaluates a candidate's knowledge and practical skills related to turfgrass maintenance, ornamental plant care, pest management, soil science, and sustainable practices. As the industry evolves with new technologies and environmental considerations, understanding the scope, structure, and preparation strategies for this test becomes essential for success. In this comprehensive review, we will explore the key aspects of the turf and ornamental practice test, including its purpose, content, benefits, challenges, and tips for effective preparation.

Understanding the Purpose of the Turf and Ornamental Practice Test

The primary goal of the turf and ornamental practice test is to certify individuals who possess the necessary knowledge and skills to manage turfgrass and ornamental plants effectively. Certification often serves as a benchmark for professionalism, ensuring that practitioners meet industry standards for sustainable and safe practices.

Key Objectives:

- Validate technical knowledge in turf and ornamental horticulture
- Promote environmentally responsible management techniques
- Enhance public confidence in certified professionals
- Provide a structured pathway for career advancement

Who Should Take the Test?

- Turf managers and maintenance personnel
- Landscape designers and contractors
- Horticulture students and educators
- Garden center staff and retail employees
- Anyone interested in advancing their career in turf and ornamental horticulture

Structure and Content of the Practice Test

The turf and ornamental practice test is designed to assess a broad range of topics essential for effective plant and turf management. The exam typically combines multiple-choice questions, true/false statements, and practical scenario analyses.

Major Content Areas:

- Turfgrass Management

- Types of turfgrass species
- Mowing, fertilization, and watering practices
- Pest and disease identification and control
- Soil testing and amendments
- Irrigation systems and scheduling

- Ornamental Plant Care

- Selection and planting of ornamental species
- Pruning, fertilization, and mulching
- Pest, disease, and weed management
- Seasonal plant maintenance

- Soil and Site Management

- Soil properties and testing
- Drainage and soil amendments
- Site assessment and planning

- Pest and Disease Management

- Common pests and diseases affecting turf and ornamentals
- Integrated Pest Management (IPM) principles
- Use of pesticides and safety protocols

- Sustainable and Environmental Practices

- Water conservation techniques
- Eco-friendly pest control
- Native plant utilization
- Waste management and recycling

Practical Component

Some certification programs include a hands-on component where candidates demonstrate skills such as turf mowing, pruning, or pest identification.

Features and Benefits of the Practice Test

Participating in the turf and ornamental practice test offers numerous advantages for individuals and organizations.

Features:

- Standardized assessment grounded in industry best practices
- Certification recognized by industry bodies and employers
- Focus on sustainable and environmentally responsible practices
- Includes both theoretical knowledge and practical skills

Benefits:

- Enhances credibility and professional reputation
- Increases job opportunities and earning potential
- Keeps practitioners updated on current industry standards
- Promotes best practices for environmental stewardship
- Provides a structured learning and review process

Pros and Cons of the Turf and Ornamental Practice Test

Every assessment tool has its strengths and limitations. Understanding these can help candidates prepare more effectively.

Pros:

- Industry recognition: Certification can improve employment prospects.

- Knowledge validation: Ensures practitioners are well-versed in current practices.
- Professional development: Encourages ongoing learning.
- Focus on sustainability: Emphasizes eco-friendly practices aligning with modern industry trends.
- Structured framework: Provides clear learning objectives and standards.

Cons:

- Cost: Exam fees and preparation materials may be expensive.
- Time commitment: Preparing for and taking the test requires significant time investment.
- Accessibility: Locations and scheduling may limit some candidates.
- Potential for exam anxiety: Like many standardized tests, performance anxiety can impact results.
- Evolving content: Rapid changes in technology and practices require ongoing updates to exam content.

Preparing Effectively for the Test

Success in the turf and ornamental practice test depends largely on thorough preparation. Here are some recommended strategies:

Study Resources:

- Official study guides and manuals provided by certifying bodies
- Industry publications and journals
- Online courses and webinars
- Local workshops and training sessions
- Practice exams and quizzes

Tips for Preparation:

- Create a study schedule: Break down topics and allocate regular study sessions.
- Focus on weak areas: Identify and strengthen knowledge gaps.
- Use visual aids: Diagrams, charts, and videos can enhance understanding.
- Join study groups: Collaborative learning can provide new insights and motivation.
- Gain practical experience: Hands-on practice reinforces theoretical knowledge.
- Review industry standards and regulations: Stay updated on local laws and guidelines.

Practical Skills Development:

- Practice turf mowing, edging, and fertilizing techniques
- Diagnose common pests and diseases
- Demonstrate proper pruning and planting methods
- Operate irrigation systems and troubleshoot issues

Tips for Test Day

- Ensure all required materials and identification are prepared beforehand.
- Arrive early to settle in and reduce stress.
- Read each question carefully, paying attention to details.
- Manage your time wisely, allocating appropriate minutes per section.
- Use process of elimination for difficult questions.
- Stay calm and confident?trust your preparation.

Post-Exam Steps and Certification Maintenance

After successfully passing the test, certification is usually valid for a specified period, often requiring renewal through continuing education or re-examination.

Maintaining Certification:

- Attend industry seminars and workshops
- Participate in ongoing training programs
- Keep up with the latest research and industry developments
- Follow local regulations and best practices

Benefits of Certification Maintenance:

- Ensures skills and knowledge remain current
- Demonstrates ongoing commitment to professionalism
- Enhances credibility with clients and employers
- May be a requirement for certain job roles or contracts

Conclusion

The turf and ornamental practice test is more than just an exam; it is a gateway to professional growth, industry recognition, and sustainable landscape management. While the preparation process demands dedication and effort, the rewards?enhanced knowledge, credibility, and career

advancement?are well worth it. As the landscape industry continues to evolve with new challenges and innovations, ongoing education and certification will remain essential for practitioners committed to excellence and environmental stewardship. Whether you are a seasoned professional or a newcomer to the field, understanding the scope and intricacies of this test can empower you to achieve your career goals and contribute positively to the landscape industry.

Question What topics are typically covered in the turf and ornamental practice test? The test generally covers areas such as turfgrass management, ornamental plant identification, pest management, irrigation practices, and safety procedures related to turf and ornamental horticulture. **Answer** How can I best prepare for the turf and ornamental practice test? Preparation involves studying the relevant curriculum, reviewing practice exams, understanding pest and disease identification, practicing plant identification skills, and familiarizing yourself with industry standards and safety protocols. Are there any recommended study resources for the turf and ornamental practice test? Yes, recommended resources include official study guides, industry publications, online practice tests, university extension materials, and participating in local training workshops or classes. What is the passing score required for the turf and ornamental practice test? Passing scores typically range from 70% to 75%, but it is advisable to check the specific requirements of the certifying organization or jurisdiction. How often should I retake the turf and ornamental practice test if I do not pass on the first attempt? You can retake the test as soon as you are prepared; most certifying bodies allow multiple attempts, but it's recommended to review your weak areas, and some may have waiting periods between attempts. Always check the specific policies of your certification provider.

Related keywords: turf management, ornamental horticulture, turfgrass exam, landscape maintenance, pesticide certification, turfgrass science, ornamental plant care, pesticide applicator test, turfgrass management certification, landscape testing

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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