SQA Manual Testing

Introduction to Manual Testing

Manual testing is essential for ensuring software quality, focusing on understanding user needs, improving functionality, and providing a seamless experience for end-users.

Key Principles of Manual Testing

Understanding the core principles of testing

- **Early testing** identifies issues before release
- **Tester independence** ensures unbiased evaluations
- **Defect clustering** highlights areas needing attention
- **Pesticide paradox** emphasizes diverse test cases
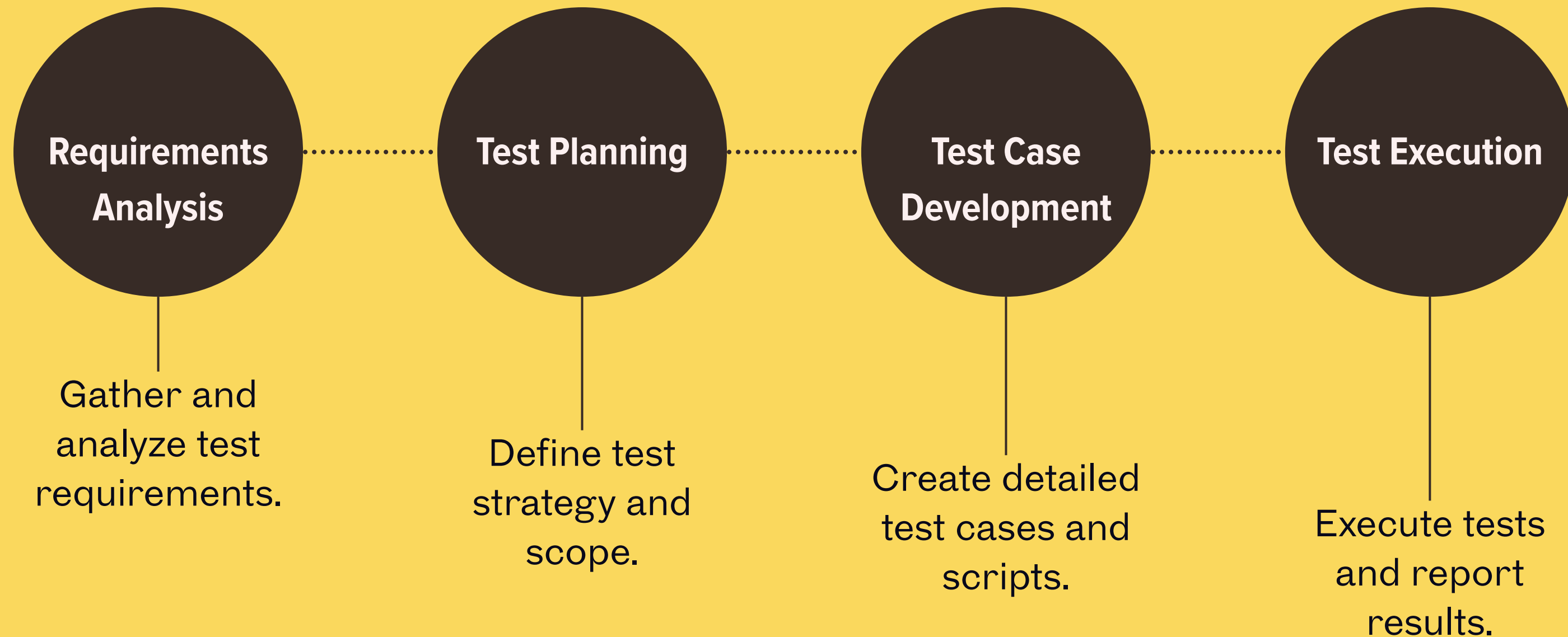- **Testing is context dependent** for effective results

Types of Manual Testing Techniques

An overview of key testing methods

- **Black Box Testing:** Focus on input and output
- **White Box Testing:** Internal structure and code review
- **Gray Box Testing:** Combination of black and white box
- **Exploratory Testing:** Testing without formal test cases

Manual Testing Lifecycle

Key milestones in the testing process

Requirements Analysis

Test Planning

Test Case Development

Test Execution

Gather and analyze test requirements.

Define test strategy and scope.

Create detailed test cases and scripts.

Execute tests and report results.

Metrics in Manual Testing

Understanding key metrics for effective quality assurance practices

1,200

Test Cases Executed
Total test cases run

85%

Defect Density Rate
Proportion of defects found

Defect Severity Metrics

Key statistics for understanding defect severity in testing

1,200

Total Critical Defects

Identified in the last cycle

85%

Severity Detection Rate

Rate of critical defects found

MANUAL VS. AUTOMATED TESTING

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Challenges in Manual Testing

Key obstacles faced by testing teams

- **Managing tight deadlines** for test completion
- **Maintaining required skill levels** among testers
- **Reducing human error** in testing processes
- **Ensuring comprehensive test coverage** of features
- **Balancing resource allocation** for different projects