AiNS Computer Institute

"Precision through Expertise: Manual Testing Unveiled"

MANUAL TESTING

What is Manual Testing?

Manual testing is a process where testers manually execute test cases without the use of automation tools. It involves human intervention to verify software applications for defects or bugs by executing tests manually, step by step. Testers follow predefined test cases, explore the application's functionality, and ensure its behavior aligns with requirements. Manual testing allows for detailed inspection, effective exploratory testing, and real-time feedback on usability, functionality, and user experience. It's particularly useful in scenarios where test cases are continuously evolving or for ad-hoc testing, ensuring thorough quality assurance before software release.

Manual Testing

Who are supposed to pursue Manual Testing?

Manual testing can be pursued by individuals interested in quality assurance, software testing, or software development roles. This includes:

1. Quality Assurance (QA) Engineers: Professionals dedicated to ensuring software products meet quality standards through testing and validation processes.

2. Software Testers: Individuals responsible for executing test cases, identifying defects, and reporting issues to ensure software reliability and functionality.

3. Software Developers: Some developers may also engage in manual testing to verify their code's functionality before integration or release.

4. Entry-level Professionals: Those seeking to enter the field of software testing or quality assurance often start with manual testing to build foundational skills and understanding of testing methodologies.

5. Career Switchers: Individuals transitioning from other fields into software testing or quality assurance may begin with manual testing to gain practical experience and transition into more specialized roles later on.
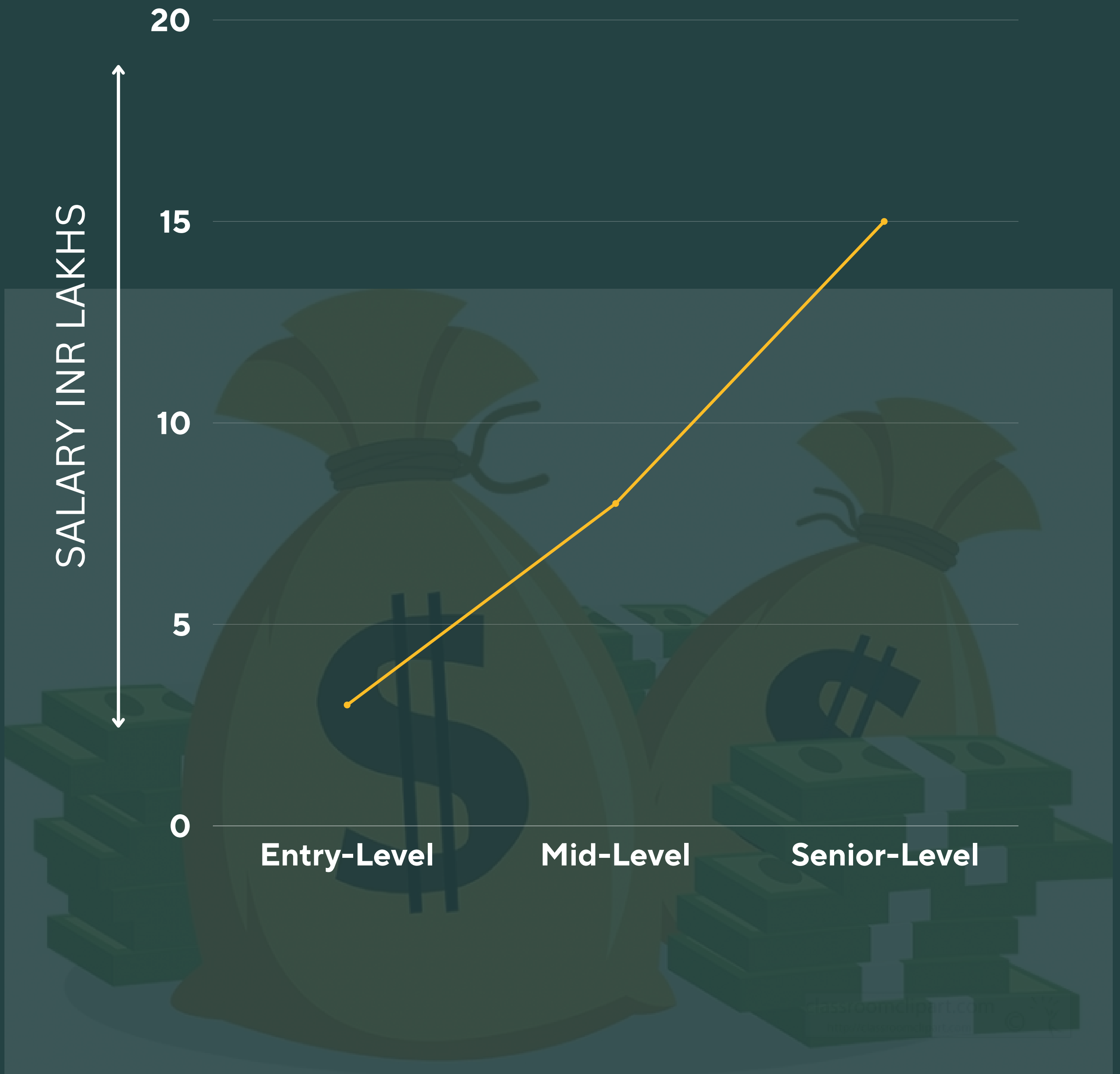
DEMAND?

The demand for manual testing worldwide remains significant despite the rise of automation testing technologies. Several factors contribute to this ongoing demand:

1. Complexity of Testing Scenarios: Manual testing is often preferred for scenarios where human judgment and intuition are required, especially in exploratory testing and user experience evaluation.
2. Initial Testing Phases: Manual testing is commonly used in the initial phases of software development or when requirements are evolving rapidly, as it allows for quick adaptability and flexible testing approaches.
3. User Interface Testing: Certain aspects of testing, such as user interface (UI) testing and usability testing, are more effectively conducted manually to ensure the application meets user expectations.
4. Cost-Effectiveness: In some cases, manual testing can be more cost-effective, especially for small-scale projects or projects with limited budgets where investing in automation tools may not be feasible.
5. Domain-Specific Testing: Industries such as healthcare, finance, and gaming often require specialized manual testing to ensure compliance, security, and user satisfaction, driving demand for manual testers with domain expertise.

SALARY EXPECTATIONS

Globally:

- In the United States, manual testers can expect salaries ranging from **$50,000 to $100,000 per annum**, depending on factors such as location (e.g., Silicon Valley vs. other regions), experience, and industry.
- In Europe, salaries for manual testers vary by country and can range from **€30,000 to €60,000 per annum**, with higher salaries in countries with a strong tech industry such as Germany and the UK.
- In Australia, manual testers can expect salaries ranging from **AU$60,000 to AU$100,000 per annum**, depending on experience and location.

TOP COMPANIES HIRING

Infosys

CISCO

DELL

vmware

IBM

ORACLE

WELLS FARGO

Honeywell

WHY AiNS?

"AiNS Computer Institute stands out as the premier choice for manual testing courses due to its unparalleled commitment to excellence and the expertise of its faculty. With a focus on practical learning and industry-relevant curriculum, AiNS ensures students are equipped with the skills needed to excel in manual testing roles.

The faculty at AiNS Computer Institute comprises seasoned professionals with extensive experience in manual testing. They bring real-world insights and best practices to the classroom, offering personalized guidance and mentorship to each student. Their dedication to student success is evident through their hands-on approach to teaching, ensuring students gain a deep understanding of manual testing concepts and techniques."

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5.0 ★★★★★

Software training institute in Pune, Maharashtra

BENEFITS at AiNS

1	**Expert Faculty**
2	**Industry-Relevant Curriculum**
3	**Career Guidance & Opportunities**
4	**Recognized ISO Certification**
5	**Real-World Data Analysis Projects**
6	**Access to Premium Tools and Datasets**
7	**Get Interview Ready & Resume Building**
8	**100% Job Assistance**

An ISO 9001:2015 Certified

AiNS ™
COMPUTER INSTITUTE

ISO 9001:2015

KAB

IAF

Certificate of Completion

This Certificate is presented to __SAMPLE__ for successfully completing

his/her course in __SAMPLE__ by securing __99%__

We wish him/her success in life.

(This percentage is based on student's Practical & Written examination)

Digitally signed by
Nasir Hassan Nasir Hassan Khan
Khan Date: 2024.03.16
16:08:40 +05'30'

AUTHORISED SIGNATORY
DIRECTOR

OUR CERTIFICATION:

ISO course certification offers several advantages:

1. International Recognition: ISO certifications are globally recognized, demonstrating compliance with international standards and best practices.
2. Enhanced Credibility: Certification enhances the credibility and reputation of the organization, instilling confidence in customers, stakeholders, and partners.
3. Improved Efficiency: ISO standards often focus on improving processes, leading to increased efficiency, reduced waste, and cost savings.
4. Market Access: Certification can provide easier access to new markets, as many contracts and tenders require ISO certification as a prerequisite.
5. Risk Management: ISO standards help identify and mitigate risks, ensuring better management of potential threats to the organization.
6. Customer Satisfaction: Compliance with ISO standards often leads to higher customer satisfaction due to improved quality and consistency of products or services.
7. Competitive Advantage: Certification can give a competitive edge by demonstrating commitment to quality, safety, and environmental responsibility.
8. Legal Compliance: ISO standards often align with legal requirements, ensuring compliance and reducing the risk of penalties or legal issues.
9. Continuous Improvement: ISO certification encourages a culture of continuous improvement, leading to ongoing refinement of processes and performance.
10. Employee Morale: Employees often take pride in working for a certified organization, leading to increased morale and motivation.

Manual Testing Syllabus

1.   SOFTWARE TESTING – OVERVIEW
-What is Testing?
-Who does Testing?
-When to Start Testing?
-When to Stop Testing?
-Verification & Validation

2.   SOFTWARE TESTING – MYTHS
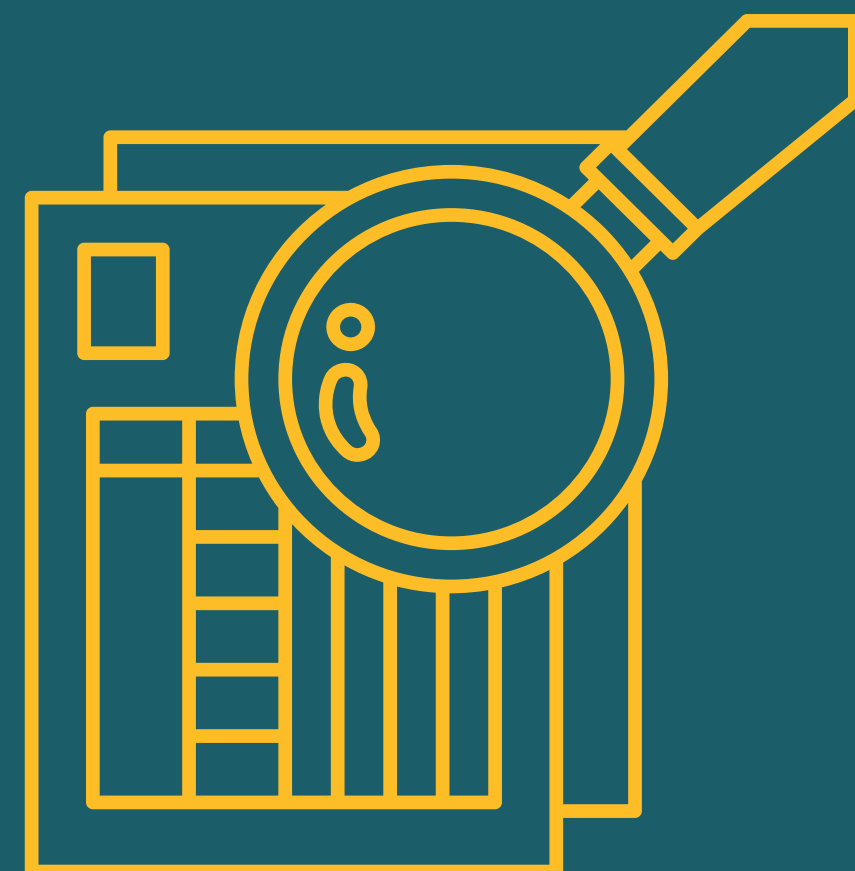
3.   SOFTWARE TESTING – QA, QC, AND TESTING
-Testing, Quality Assurance, and Quality Control
-Audit and Inspection
-Testing and Debugging

4.   SOFTWARE TESTING – ISO STANDARDS
-ISO/IEC 9126
-ISO/IEC 9241-11
-ISO/IEC 25000:2005
-ISO/IEC 12119
-Miscellaneous

5.   SOFTWARE TESTING – TESTING METHODS
- Black-Box Testing
- White-Box Testing
- Grey-Box Testing
- A Comparison of Testing Methods

6. SOFTWARE TESTING – TESTING LEVELS

- Functional Testing
- Unit Testing.
- Integration Testing.
- System Testing.
- Regression Testing
- Acceptance Testing
- Alpha Testing
- Beta Testing
- Non-Functional Testing
- Performance Testing
- Load Testing
- Stress Testing
- Usability Testing
- UI vs Usability Testing
- Security Testing
- Portability Testing
- Other Types

a.Voice Over Testing (Part of Accessibility Testing)
b.Active Dark Mode Testing

7. SOFTWARE TESTING – Test Cases writing and Execution

- How to write Test Cases – Standards
- Test Execution (Test Proofs Creation)

8. SOFTWARE TESTING – ESTIMATION TECHNIQUES.

- Functional Point Analysis
- Test Point Analysis

9. SOFTWARE TESTING – DOCUMENTATION

- Test Plan
- Test Scenario
- Test Case
- Test Results (Test Proofs Creation)
- Traceability Matrix.
- Sign-Off Template(Document)
- Test Summery Report

Other

1.   Practicals
2.   Mini Project (Live website/Project Testing)
3.   Special Handwritten Notes