

AI-POWERED MANUAL TESTING COURSE

Manual Testing + AI + Jira + Postman

Real-world, practical training designed to help beginners build job-ready QA skills.

LEVEL	Beginner → Job Ready	FOCUS	Manual Testing + AI
PROJECTS	Banking + E-Commerce / LMS	TOOLS	Jira + Postman + ChatGPT

What You Will Learn

- Build strong Manual Testing fundamentals from scratch.
- Analyze real-world requirements and create test scenarios and test cases.
- Apply Black Box testing techniques practically.
- Work with Agile/Scrum teams and manage defects in Jira.
- Perform API testing basics using Postman.
- Use ChatGPT/AI to improve testing productivity.
- Practice complete QA workflows through Banking and E-Commerce/LMS projects.
- Prepare for real-world Manual Testing interviews.

Course Curriculum

MODULE 01 • Introduction to Software Testing

Software Testing, QA vs QC, Verification vs Validation, Error/Defect/Bug/Failure, Manual vs Automation, tester role, testing career.

MODULE 02 • SDLC — Software Development Life Cycle

SDLC fundamentals, Waterfall, V-Model, Iterative, Spiral, Agile development, QA role across the development life cycle.

MODULE 03 • STLC — Software Testing Life Cycle

Requirement Analysis, Test Planning, Test Case Design, Environment Setup, Test Execution, Defect Reporting, Test Closure and deliverables.

MODULE 04 • Testing Fundamentals

Test Scenario, Test Case, Test Data, Positive/Negative Testing, Functional/Non-Functional, Smoke, Sanity, Regression, Retesting, Exploratory, Ad-hoc, Compatibility and Usability Testing.

MODULE 05 • Black Box Testing Techniques

Equivalence Partitioning, Boundary Value Analysis, Decision Tables, State Transition, Use Case Testing, Error Guessing and practical test-case design.

MODULE 06 • Requirement Analysis & Test Scenarios

Functional/non-functional requirements, BRD/FRD basics, traceability, scenario identification, positive/negative/edge cases, missing and ambiguous requirements. AI: analyze requirements, identify gaps and generate questions.

MODULE 07 • Test Case Design & Documentation

Test Case ID, title, preconditions, steps, test data, expected/actual results, Pass/Fail, Priority/Severity, positive, negative, end-to-end and regression cases. AI: generate, review, improve and expand test cases.

MODULE 08 • Real-Time Project 1 — Banking Application

Login, registration, accounts, balance, fund transfer, beneficiaries, transactions, payments and logout. Requirement analysis, scenarios, test cases, execution, defects, retesting and regression. AI-assisted banking testing.

MODULE 09 • Defect / Bug Reporting

Defect lifecycle, Severity vs Priority, professional bug reports, summary, description, reproduction steps, expected/actual result, environment, attachments and common mistakes. AI-assisted bug reporting.

MODULE 10 • Agile & Scrum for Testers

Agile, Agile Manifesto, Scrum roles, Sprint, Product Backlog, Sprint Backlog, User Story, Acceptance Criteria, Daily Stand-up, Planning, Review, Retrospective, QA role and Definition of Done.

MODULE 11 • Jira for Manual Testers

Projects, issues, epics, stories, tasks and bugs; creating defects, priority/severity, workflow, comments, attachments, search, filters, sprint basics and Agile board. AI-assisted Jira content.

MODULE 12 • API Testing Basics with Postman

API fundamentals, URL vs API testing, request/response, GET/POST/PUT/PATCH/DELETE, status codes, headers, parameters, JSON, authentication, Postman collections and response validation. AI-assisted API testing.

MODULE 13 • Real-Time Project 2 — E-Commerce / LMS

E-Commerce: registration, login, search, product, cart, checkout, payment and orders. LMS: registration, courses, enrollment, lessons, progress, quiz and certificate. Complete manual testing workflow with Jira.

MODULE 14 • AI Productivity for Software Testers

ChatGPT basics, prompt engineering for testers, requirement analysis, scenario/test-case generation, test-data creation, bug reporting, edge cases, regression suggestions, API/Jira assistance and interview preparation.

MODULE 15 • End-to-End Testing Project

Requirement → Analysis → Planning → Scenarios → Test Cases → Execution → Bugs → Retesting → Regression → Closure. Prepare test execution reports and use Jira, Postman and AI throughout the workflow.

MODULE 16 • Interview Preparation

Manual Testing, scenario-based, SDLC/STLC, Agile/Scrum, defects, test cases, Black Box, Jira, API/Postman and project questions. AI-assisted mock interview, self-introduction and project explanation.

Course Outcome

UNDERSTAND	ANALYZE	DESIGN	EXECUTE	REPORT	TRACK	IMPROVE
Testing basics	Requirements	Test cases	Execution	Bug reports	Jira	AI productivity

AI-POWERED TESTING • REAL PROJECTS • PRACTICAL SKILLS

Learn. Practice. Perform.