



Capitol Professional Academy
Give Wings to Your Career

CAPITOL PROFESSIONAL ACADEMY

SOFTWARE TESTING & QUALITY ASSURANCE



Technical Training
Recruitment
Engineering & Consulting
Constructions

Capitol Professional Academy, an institution dedicated for providing advanced level of training to vibrant enthusiasts who seek careers in the industry and corporate. The professional courses offered by Capitol Professional's Academy is specially designed on Industry basis to acquire technical knowledge and skills in order to seek career position in corporate and industries. CPA trained individuals are qualified for positions in constructional projects, petrochemical plants, telecom sector, utilities, fabrication designing, software, networking, Industries which work on industrial automation based turnkey projects, maintenance and other occupations that require automation skills.



**CAPITOL PROFESSIONAL ACADEMY
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SOFTWARE TESTING & QUALITY ASSURANCE

Flexible solutions for Industry need

INDUSTRY FOCUSING

- ✚ Facility Management
- ✚ Oil and Gas Industry
- ✚ Telecom companies
- ✚ IT and networking
- ✚ Software company
- ✚ ERP and SAP solution systems

Until the past decade, Software Testing was a process, which used to go along with the Software Development, but later it has been emerged as a separate sector, and now is a crucial part in the Quality Assurance of any development process. Software Testing is a trade-off between budget, time and quality. It is noted that testing is rarely taught in the academic programs like B,Tech, BCA or MCA, whereas they concentrate more on programming aspects of IT. But on checking it out in the industry, one can find that Software Testing is creating equal opportunities to that of development. Especially, in the post-recession era, India is being emerged as the new hub for Software Testing.

The purpose of testing can be quality assurance, verification and validation, or reliability estimation. Testing is basically classified into Manual Testing and Automation Testing using testing tools. The skilled professionals are highly sought after in the industry for testing job opportunities like Test Designers, Automation Developers, Test Administrators, Database Testers, Test Leads, Quality Control and Quality Assurance professionals, etc.



COURSE DETAILS

Batch :	Full Time	Part Time
Duration :	15 Months	1 Months
Qualification :	(CSE/ECE/IT/BCA/MCA)	



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BASIC PRINCIPLES AND CREDENTIALS

1. The Fundamentals of Testing

- ❖ *Background*
- ❖ *Introduction*
- ❖ *Why software fails*
- ❖ *Keeping software under control*
- ❖ *What testing is and what testing does*
- ❖ *General testing principles*
- ❖ *Fundamental test process*
- ❖ *The psychology of testing*
- ❖ *Code of ethics*

2. Life Cycles

- ❖ *Introduction*
- ❖ *Software development models*
- ❖ *Test levels*
- ❖ *Test types*
- ❖ *Maintenance testing*
- ❖ *Summary*

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3. *Static Testing*

- ❖ *Background to static techniques*
- ❖ *Reviews and the test process*
- ❖ *Static analysis by tools*

4. *Test Design Techniques*

- ❖ *The test development process*
- ❖ *The idea of test coverage*
- ❖ *Categories of test case design techniques*
- ❖ *Specification-based (black-box) techniques*
- ❖ *Structure-based (white-box) techniques*
- ❖ *Experience-based techniques*
- ❖ *Choosing test techniques*

5. *Test Management*

- ❖ *Risk and testing*
- ❖ *Test organization*
- ❖ *Test approaches (test strategies)*
- ❖ *Test planning and estimation*
- ❖ *Test progress monitoring and control*
- ❖ *Incident management*
- ❖ *Configuration management*



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6. TOOL SUPPORT FOR TESTING

- ❖ *Introduction*
- ❖ *What Is a test tool?*
- ❖ *Test tools*
- ❖ *Introducing a tool into an organization*
- ❖ *Summary*

7. THE EXAMINATION

- ❖ *The examination*
- ❖ *Revision techniques*



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Software Testing Program – Highlights

- *Prevention vs. Detection*
- *Quality Philosophy*
- *Process & Organizational Benchmarking*
- *Analyzing Risk of Failure*
- *Testing Life Cycle / SDLC*
- *Verification & Validation Testing*
- *Test Environment*
- *Project Management*
- *Developing Test Process*
- *Test Administration*
- *White Box, Black Box, Incremental, Thread Testing*
- *Test Design*
- *Test Documentation*

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