



GOVERNMENT OF INDIA  
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP  
DIRECTORATE GENERAL OF TRAINING

**COMPETENCY BASED CURRICULUM**

# SOFTWARE TESTING ASSISTANT

(Duration: One Year)

**CRAFTSMEN TRAINING SCHEME (CTS)  
NSQF LEVEL- 5**



**SECTOR –IT & ITES**



Directorate General of Training

# SOFTWARE TESTING ASSISTANT

(Non-Engineering Trade)

(Revised in 2019)

Version: 1.2

**CRAFTSMEN TRAINING SCHEME (CTS)**

**NSQF LEVEL - 5**

Developed By

Ministry of Skill Development and Entrepreneurship

Directorate General of Training

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## 1. COURSE INFORMATION

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During the one-year duration of Software Testing Assistant trade a candidate is trained on professional skill, professional knowledge and Employability skill related to job role. In addition to this a candidate is entrusted to undertake project work and extra-curricular activities to build up confidence. The broad components covered under Professional Skill subject are as below:-

The trainee learns to practice with Operating Systems (Windows, Linux) and with all the system applications. Practice with all the functions of Word Processing and Spreadsheet Software. Create customized database files using Microsoft Access. Configure network connection and browsing Internet. Design web pages using HTML programming and WYSIWYG web design tools. Implement Information Security, Security Threats, Security Vulnerabilities and Risk Management. Design and develop web pages using JavaScript programming. At the end of this year trainees can go on industrial visit or projects specified in the syllabus.

The trainee learns to Perform Software Testing using different techniques. Implement Quality Methods in Software Testing. Apply manual testing techniques in Software Testing. Perform automatic test execution using Windows automated software testing tool WinRunner. Perform automatic test execution using Windows automated software testing tool LoadRunner. Perform automatic test execution using Web automated software testing tool Selenium IDE. At the end of year the trainees can go on industrial visit or projects specified in the syllabus.

*Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.*

### 5.1 LEARNING OUTCOMES (TRADE SPECIFIC)

1. Work with Operating Systems (Windows, Linux) and with all the system applications following safety precautions.
2. Explore all the functions of Word Processing and Spreadsheet Software.
3. Plan and create customized database files using Microsoft Access.
4. Configure network connection for browsing Internet.
5. Design web pages using HTML programming and WYSIWYG web design tools.
6. Implement Information Security, Security Threats, Security Vulnerabilities and Risk Management.
7. Design and develop web pages using JavaScript programming.
8. Perform Software Testing using different techniques.
9. Implement Quality Methods in Software Testing.
10. Apply manual testing techniques in Software Testing.
11. Perform automatic test execution using Windows automated software testing tool WinRunner.
12. Perform automatic test execution using Windows automated software testing tool LoadRunner.
13. Perform automatic test execution using Web automated software testing tool Selenium IDE.