



Școala  
informală  
de IT

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# Software Testing Curriculum

Școala Informală de IT

**Educație Informală S.A.**

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## Content:

- 1. Testing Fundamentals**
- 2. Testing Types**
- 3. Testing Levels**
- 4. Requirements Analysis**
- 5. Test Preparation**
- 6. Test Case Management**
- 7. Bug management**
- 8. Test Execution**
- 9. Test Reporting**
- 10. General concepts**
- 11. Soft Skills**



## Objectives

The objectives of the course are to understand, learn and use testing general concepts and good practices in order to be able to join a team in an IT company. The curriculum contains all necessary ingredients, technical and non-technical, for a non-IT person to shift to the new industry.

### 1. Testing Fundamentals

- What is testing and its importance
- Testing vs. Quality Assurance
- Basic principles and terminology

### 2. Testing Types

- Manual vs. Automated Testing
- Functional vs. Non-Functional Testing
- White Box vs. Black Box Testing
- Dynamic vs. Static Testing
- Other used testing types and techniques

### 3. Testing Levels

- Component Testing
- Integration Testing
- System Testing
- Acceptance Testing



## 4. Requirements Analysis

- Functional and Non-Functional Requirements
- Requirements clarifications

## 5. Test Preparation

- Test Environment
- Test Data Management
- Test Design Techniques: Equivalence Class Partitioning, Boundary Value Analysis

## 6. Test Case Management

- Test Case Fundamentals
- Tools: TestLink
- Test Case Design

## 7. Bug management

- Bug Fundamentals
- Bug Reporting
- Tools: Mantis
- Bug Lifecycle

## 8. Test Execution

- Run test cases
- Regression Testing
- Exploratory Testing
- Bug Validation



- Test Tracking
- Test Prioritization

## 9. Test Reporting

- Reports types

## 10. General concepts

- MS Office: Word, Excel
- Basic OOP concepts & programming languages: JavaScript, HTML, CSS
- Basic database concepts: SQL language • Windows Desktop Apps, testing tools
- Programming fundamentals (OS, programming languages, technologies, devices)
- Client-Server Technology, testing tools
- Web Browsers, testing tools
- Mobile platforms, testing tools
- Software product lifecycle
- Agile/Scrum/ Waterfall, V-Model methodology

## 11. Soft Skills

- Soft skills needed in testing
- Preparing the students for real-life work environment
- How to present oneself during an IT interview
- CV formatting tips