# Python Automation Tester Week 1 traininig program

## Detailed Syllabus for ISTQB Certified Tester Foundation Level

Learning resources:

**Video Tutorials: https://www.youtube.com/playlist?list=PLj5VKaW115t0LT-7DICjHkGuxdTEqFI91**

**ISTQB official website: https://www.istqb.org/**

## Study well! There will be an MCQ test and One hour mock interview on week 1 training on 1st Jan 2025. All the best!

### 1. Fundamentals of Testing

- **Topics**:
    - Why testing is necessary.
    - Seven testing principles.
    - Test process overview.

### 2. Testing Throughout the Software Development Lifecycle

- **Topics**:
    - Test levels (Unit, Integration, System, Acceptance).
    - Test types (Functional, Non-functional, Maintenance).
    - Testing in different development models (Waterfall, Agile).

### 3. Static Testing

- **Topics**:
    - Static testing techniques (Reviews, Walkthroughs, Inspections).
    - Static analysis by tools.

### 4. Test Design Techniques

- **Topics**:
    - Black-box techniques (Equivalence Partitioning, Boundary Value Analysis).
    - White-box techniques (Statement and Decision Coverage).
    - Experience-based techniques (Exploratory Testing).

### 5. Test Management

- **Topics**:
    - Test organization and independence.
    - Risk-based testing.
    - Test planning, monitoring, and control.

○ Configuration management.

## 6. Tools Support for Testing

- **Topics**:
    - ○ Types of test tools (Management, Static, Dynamic, Performance).
    - ○ Benefits and risks of tool support.
    - ○ Tool selection and implementation.

This syllabus and video links provide a comprehensive guide to prepare for the ISTQB Certified Tester Foundation Level.