



подробнее о курсе

# Курс QA Automation — Python Online

ADVANCED LEVEL

🕒 32 занятия 📅 2 занятия в неделю

## ИЗУЧАЕМЫЕ ТЕХНОЛОГИИ



Jenkins



Selenium



Rest



Git



Python



Continuous Integration

## ПРОГРАММА КУРСА

### 1. Introduction to Python Automation

- Basics Logical, Arithmetical, and String operations
- Regular expressions
- Tuple
- List
- Deque
- Python Sets
- Python Dictionaries
- If else statement
- For loop
- While loop

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### 2. Python Files

- Python Files
  - File delete, move, and copy operation
  - OS module basics
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### 3. Basics of Python Functions

- Syntax of Function
  - Default
  - Arbitrary
  - Keyword arguments
  - Lambda functions
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### 4. Python built-in functions

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### 5. Generators and iterators basics

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### 6. Python Modules and Package. PIP tool

- Module basics
  - Import instructions
  - Python packages
  - 3dparty packages
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### 7. Python Exceptions, Time module

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### 8. Object Oriented Programming

- Class and object definitions
  - Object creation via class
  - Class and object attributes
  - Polymorphism
  - Encapsulation
  - Super method
  - Staticmethod and classmethod decorators
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### 9. Automation: Pytest framework

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### 10. Automation: Selenium, Elements, Locators, Xpath, Waits

- Navigations with Selenium Web elements CSS locators
  - Click and sendKeys methods
  - Selenium Implicit and Explicit waits
  - Page Objects pattern
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### 11. Design Patterns

- Singleton

- Factory method
  - Abstract factory
  - Decorator
  - Proxy
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## 12. Automation: Parsers

- Command Line arguments parsing with argparse
  - Data Serialization with JSON
  - Data Serialization with YAML
  - XML parser and DOM structure
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## 13. Automation: Rest API testing

- What is Rest API and how to test it
  - Practice writing tests
  - Mocking remote objects
  - How to test REST API with pytest
  - Practice writing tests with Postman tool
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## 14. Automation: Test Report creation

- How to create a test report with pytest-HTML
  - Allure reports
  - Saving report into SQLite DB
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## 15. Parallel run

- Threading module
  - Creation, start, stop, and join methods of thread
  - Threads problem
  - GIL and Sharable memory. Basic sync objects
  - Subprocess module
  - OS module for an additional process start
  - Multiprocessing module
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## 16. CI, Jenkins

- What is CI
- Jenkins basics
- Jenkins plugins

- First Jenkins job
  - What are Jenkins triggers
  - Git basics for Jenkins's integration
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#### БОНУСЫ КУРСА



Все студенты этого курса могут посещать занятия по английскому языку



Тестовое собеседование с техническим специалистом



Тренинг по прохождению собеседования и составлению резюме