

# TEK2KAREER

Software Quality Assurance & Automation Specialist



## KAIZENOVA TECHNOLOGIES LLC d/b/a TEK2KAREER

### Program Catalog: Software Quality Assurance & Automation Specialist Certificate

#### Program Snapshot

| Item              | Details                                      |
|-------------------|----------------------------------------------|
| Total Clock Hours | 192 Hours                                    |
| Program Length    | Approximately 32 Weeks (16 Weeks per Module) |
| Delivery Mode     | Online                                       |

| Item            | Details                                                                       |
|-----------------|-------------------------------------------------------------------------------|
| Program Tuition | \$10,000                                                                      |
| License Status  | Authorized by the Michigan Department of Labor and Economic Opportunity (LEO) |

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## Program Overview

The **Software Quality Assurance & Automation Specialist Certificate** is an applied, hands-on vocational training program designed to prepare students for employment in software testing, automation engineering, validation, and quality assurance roles.

The program provides end-to-end training covering:

- Software Development Life Cycle (SDLC / STLC)
- Manual testing concepts and techniques
- Test planning, defect lifecycle, and QA documentation
- Agile QA workflows using Scrum, Jira, and TestRail
- Automation scripting using Python and Selenium
- Version control, CI/CD fundamentals, and automated validation
- Real-world project testing in IT, web, and automotive environments

The program consists of two 96-hour instructional modules. Students may enroll in each module individually; however, the state-authorized certificate is awarded only upon successful completion of both modules.

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## Occupational Alignment

This program prepares students for occupations recognized by the U.S. Bureau of Labor Statistics (BLS), including:

- **15-1253** – Software Quality Assurance Analysts and Testers
  - **15-1252** – Software Developers, Automation and Validation Support Roles
  - **15-1211** – Computer Systems Analysts (Entry-Level QA Support)
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## Program Objectives

Upon successful completion of the full 192-hour program, students will be able to demonstrate competency in the following areas:

### Quality Assurance Foundations

- Demonstrate understanding of SDLC, STLC, Waterfall, V-Model, and Agile Scrum.
- Develop test plans, test cases, and traceability matrices.
- Log and manage defects using Jira and TestRail.

### Manual Testing Techniques

- Perform functional, integration, regression, smoke, sanity, usability, and exploratory testing.
- Apply industry-standard test design techniques.

### Automation & Scripting

- Build test automation scripts using Python, Selenium, and PyTest.
- Construct reusable functions, locators, and page objects.
- Execute automated regression suites and generate reports.

### Tools & Industry Skills

- Use Jira and TestRail for QA documentation and tracking.
- Use GitHub for version control.
- Execute API tests using Python Requests and Postman.
- Support DevOps workflows and CI/CD fundamentals.

### Professional Skills

- Communicate effectively with developers, product managers, and QA teams.
- Analyze defects, write professional reports, and prepare stakeholder updates.
- Execute real-world QA scenarios through hands-on capstone projects.

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## Program Structure (192 Hours)

The authorized program consists of two integrated modules.

## Module 1: Software Quality Assurance



| Item        | Details  |
|-------------|----------|
| Total Hours | 96       |
| Duration    | 16 Weeks |
| Delivery    | Online   |

### Topics Include:

- Introduction to Computer Systems and SDLC
- Software Testing Principles and QA Methodologies
- Test Design Techniques
- Defect Lifecycle (Severity and Priority)
- Jira and TestRail for QA Documentation
- Requirements Analysis and Test Execution
- Agile QA and Sprint-Based Testing
- Manual Testing Capstone Project

### Instructional Format:

- 6 hours per week (3 days per week  $\times$  2 hours per session)
- Combination of lectures, assignments, and project-based learning

## Module 2: Automation with Python



| Item        | Details  |
|-------------|----------|
| Total Hours | 96       |
| Duration    | 16 Weeks |
| Delivery    | Online   |

### Topics Include:

- Python Programming Foundations
- Data Structures, Functions, and Object-Oriented Programming (OOP)
- Selenium Automation Frameworks
- Locators, Assertions, and Page Object Model
- API Automation using Python, Requests, and Postman
- GitHub Version Control Workflows
- CI/CD using GitHub Actions
- Automation Capstone Project: E-Commerce Test Framework

### Instructional Format:

- 6 hours per week (3 days per week × 2 hours per session)
- Practical, hands-on automation framework development

## Program Schedule Summary

| Component                             | Hours      | Duration        | Format        |
|---------------------------------------|------------|-----------------|---------------|
| Module 1 – Software Quality Assurance | 96         | 16 Weeks        | Online        |
| Module 2 – Automation with Python     | 96         | 16 Weeks        | Online        |
| <b>Total Program</b>                  | <b>192</b> | <b>32 Weeks</b> | <b>Online</b> |

## Tuition & Fees

| Item                         | Cost                         |
|------------------------------|------------------------------|
| Module 1 Tuition             | \$5,000                      |
| Module 2 Tuition             | \$5,000                      |
| <b>Total Program Tuition</b> | <b>\$10,000</b>              |
| Registration Deposit         | \$1,000 (Applied to Tuition) |

Students may enroll in modules individually. The certificate is awarded only after both modules are completed.

## Payment Options

Accepted payment methods include:

- Zelle
- Venmo
- PayPal
- Stripe
- Square
- Credit/Debit Card

**Installment Plan:** The remaining balance after the registration deposit may be paid in equal monthly installments during the enrolled module.

### Refund Policy (LEO-Compliant)

| Timing                       | Refund Percentage |
|------------------------------|-------------------|
| 7+ days before program start | 100%              |
| After 1–2 months             | 50%               |
| After 3–4 months             | 25%               |
| After 4 months               | No refund         |

All refund requests must be submitted in writing to [info@tek2kareer.com](mailto:info@tek2kareer.com). Refunds are processed within 14 business days.

### Admission Requirements

Applicants must provide:

- High school diploma, GED, or equivalent
- Basic computer literacy
- English reading and writing proficiency
- Valid government-issued photo ID
- Signed enrollment agreement and payment plan

### Attendance Policy

- Minimum **80% attendance** is required for each module.
- Excused absences require documentation (medical or emergency).
- Excessive absences may result in dismissal from the program.

## Grading & Completion Requirements

### Grading Weight

| Category              | Weight |
|-----------------------|--------|
| Assignments & Quizzes | 40%    |
| Practical Exercises   | 30%    |
| Capstone Projects     | 30%    |

### Completion Conditions

To complete the program and be awarded the certificate, students must:

- Earn **70% or higher** in both modules.
- Demonstrate proficiency in practical assessments.
- Complete both capstone projects.
- Complete Module 1.
- Complete Module 2.
- Ensure all tuition is paid in full.

### Student Support Services

- Instructor office hours
- Email and phone support
- Learning Management System (LMS) access 24/7
- Remediation sessions
- Career readiness support (resume and interview preparation)

## **Tools & Equipment**

### **Provided by the School**

- Tutor LMS (Learning Management System)
- Zoom for live instruction
- Jira and TestRail QA tools
- Python IDEs (VS Code, PyCharm)
- GitHub and GitHub Actions
- Selenium WebDriver
- Microsoft Office (Word and Excel)
- Google Workspace

### **Student Equipment Requirements**

Students must have:

- Laptop or desktop computer
- Webcam and microphone
- Stable internet connection

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### **Disclaimer**

This program is a Michigan LEO-authorized certificate program. Modules may be taken individually for skill enhancement; however, completion of both modules is required to earn the certificate. Completion of this program does not guarantee employment, but prepares students for industry-recognized software quality assurance and automation roles.