

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

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Al+ Vibe Coder™

CODE: LENGTH: PRICE:

AIC AP-111 4 Hours £150.00

Description

Supercharge coding with Al+ Vibe Coder™ for smarter, faster creation

- Beginner-Friendly Approach: Designed for aspiring creators eager to explore Al-assisted coding with ease and confidence
- Interactive Learning Journey: Blends core coding concepts, intuitive Al tools, and hands-on practice to build real problem-solving skills
- **Project-Driven Growth:** Provides guided exercises and practical projects to help you build, refine, and showcase your Alpowered coding talents

Why This Certification Matters

- Empowers Intelligent Development: Learn to integrate Al into coding workflows to build smarter, more adaptive applications.
- Boosts Productivity: Automate repetitive programming tasks and streamline software development using Al-driven tools and assistants.
- Bridges Creativity and Code: Combine technical expertise with creative problem-solving to design innovative, humancentered digital experiences.
- Future-Proofs Your Career: Gain in-demand Al coding skills that are reshaping industries and redefining the developer's role.
- Prepares for Real-World Impact: Apply AI in real coding environments to develop scalable, intelligent, and efficient solutions for diverse domains.

At a Glance: Course + Exam Overview

- Included: Self-paced course + Official exam + Digital badge
- Delivery: Hands-on, projects, case studies
- Outcome: Industry-recognized credential + hands-on experience

The following tools will be explored in this course:

- Python
- TensorFlow
- PyTorch
- GitHub Copilot
- OpenAl Codex
- Hugging Face Hub
- LangChain
- FastAPI
- VS Code
- Jupyter Notebooks
- Pandas
- NumPy
- Scikit-learn
- Docker
- Streamlit
- API Integration Tools
- Prompt Engineering Frameworks

- Automation SDKs
- Version Control Systems (Git)

What's Included (One-Year Subscription + All Updates):

- High-Quality Videos, E-book (PDF & Audio), and Podcasts
- · Al Mentor for Personalized Guidance
- Quizzes, Assessments, and Course Resources
- Online Proctored Exam with One Free Retake
- · Comprehensive Exam Study Guide

Objectives

- Al-Powered Programming
- Machine Learning Integration
- Generative Code Development
- · Natural Language Coding
- · Automated Debugging and Testing
- Data-Driven Application Design
- Prompt Engineering
- · Algorithm Optimization
- Al Workflow Automation
- Ethical and Responsible Al Development

Audience

- Aspiring Programmers: Beginners eager to start their coding journey with the power of Al-driven learning and automation.
- Tech Enthusiasts: Individuals fascinated by how Al transforms coding, app development, and digital innovation.
- Students and Graduates: Learners seeking a practical foundation in programming enhanced by real-world AI applications.
- Career Switchers: Professionals from non-technical backgrounds looking to enter the tech industry through Al-assisted coding.
- Entrepreneurs and Creators: Innovators aiming to build smarter products, automate processes, and bring Al-powered ideas to life.

Prerequisites

- · Basic Computer Skills: Comfortable with operating systems and files.
- Mathematics Fundamentals: Understanding of algebra and basic statistics.
- Logical Thinking: Ability to approach problems step by step.
- Programming Curiosity: Interest in learning coding from scratch.
- English Proficiency: Ability to follow technical instructions clearly.

Programme

What You'll Learn

Module 1: Introduction to Vibe Coding & Al Tools

- 1.1 What is Vibe Coding?
- 1.2 Evolution of Al in Software Development Low Code vs No Code vs Vibe Coding
- 1.3 Overview of Common Al Coding Tools by Functionality
- 1.4 SDLC for a Vibe Coding Product
- 1.5 Hands-on Lab: Familiarizing Learners with Multiple Al Coding Tools
- 1.6 Case Studies

Module 2: Prompting for Code - Basics & Best Practices

2.1 Anatomy of a Good Prompt

- 2.2 Prompt Types Instructive, Descriptive, Iterative
- 2.3 Prompting Patterns Zero-Shot, Few-Shot, Chain-of-Thought
- 2.4 Hands-on Lab: Practice Zero-Shot, Few-Shot, and Chain-of-Thought Prompting
- 2.5 Use-Case 1: Creating a Python Calculator
- 2.6 Use-Case 2: Optimizing Al-generated Code Using Different Prompt Types

Module 3: Debugging & Testing via Al

- 3.1 Reviewing and Refining Al-generated Code
- 3.2 Prompting for Bug Fixes and Test Coverage
- 3.3 Using Al-generated Unit Testing
- 3.4 Detecting Hallucinations and Unsafe Code
- 3.5 Hands-on Lab: Al-Assisted Debugging and Unit Testing
- 3.6 Activity Section

Module 4: Building a Simple Full-Stack App with Prompts

- 4.1 Planning the App: Frontend + Backend
- 4.2 Using IDEs and Code Generators to Scaffold Code
- 4.3 Connecting Components Using Natural Language
- 4.4 Deploying and Testing the MVP in Simulated Environment
- 4.5 Hands-on Lab: Building and Connecting the Frontend and Backend for Contact Form Submission
- 4.6 Hands-on Lab: Building a Standalone Desktop Calculator Application Using Tkinter
- 4.7 Hands-on Assignment 1: Task Management System Full-Stack Development Using Prompts

Module 5: Code Ethics, Security, and Al Limits

- 5.1 Al Limitations and Biases
- 5.2 Prompt Injection and Mitigation Strategies
- 5.3 Data Privacy and Secure Coding
- 5.4 Responsible Use of AI in Production
- 5.5 Hands-on Lab: Build Awareness of Al Limitations and Responsible Practices

Module 6: Capstone Project - Prompt-Driven App

- 6.1 Apply All Learned Skills in a Real-World Project
- 6.2 Collaborate and Iterate Using Al Tools
- 6.3 Demonstrate End-to-End Development Using Prompts
- 6.4 Capstone Project Use Case: Al-Powered To-Do List Application
- 6.5 Capstone Project Use Case: Al-Powered Note-Taking Desktop App
- 6.6 Assignments

Test and Certification

Exam Details

- Duration: 90 minutes
- Passing Score: 70% (35/50)
- Format: 50 multiple-choice/multiple-response questions
- Delivery Method: Online via proctored exam platform (flexible scheduling)

Exam Blueprint:

- Introduction to Vibe Coding & Al Tools 15%
- Prompting for Code Basics & Best Practices 15%
- Debugging & Testing via AI 15%
- Building a Simple Full-Stack App with Prompts 20%
- Code Ethics, Security, and Al Limits 20%
- Capstone Project Prompt-Driven App 15%

Session Dates

Date	Location	Time Zone	Language	Туре	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		£150.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.