



HRDC-Claimable Workshop

CODING WITH AI: PRACTICAL AI- ASSISTED CODING & AUTOMATION

SUMMARY



Welcome to Hustle, we believe creativity and skills go hand in hand. As a creative academy, we design engaging, practical courses that equip learners and organisations to unlock their potential, adapt to change, and lead with confidence in today's ever-changing world.

This practical programme equips participants with the skills to use AI coding assistants to generate, understand, refine and troubleshoot code. Participants will progress from basic programming logic and effective prompting to developing a simple business application and automating repetitive tasks.

Through guided exercises and a hands-on project, participants will learn how to turn business requirements into working prototypes, test their functionality and review AI-generated code before use.



COURSE MODULE

Our goal is to learn how to turn business requirements into working prototypes, test their functionality and review AI-generated code before use.

DAY 1 - AI CODING FOUNDATIONS & APPLICATION DEVELOPMENT

01

Introduction to AI-Assisted Coding

- How AI supports coding and software development
- Overview of AI coding assistants
- Business applications
- Strengths and limitations; the role of human review.

02

Understanding Basic Coding Logic

- Variables, data types and operators; conditions and loops
- Functions and reusable logic
- Introductory HTML, CSS and JavaScript;
- Understanding files and project structure.

03

Prompt Engineering for Coding Tasks

- Defining the problem, intended users and expected outputs
- Specifying inputs and business rules
- Breaking a project into smaller tasks
- Requesting explanations
- Refining prompts and managing context.

04

Building a Simple Business Application with AI

- Generating an initial application
- Creating forms and interface layouts
- Implementing calculations and validation
- Editing generated code
- Guided project such as a quotation calculator, task tracker or expense recording tool.



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DAY 2 - DEBUGGING, AUTOMATION & PRACTICAL PROJECT

05

Debugging and Code Improvement with AI

- Recognising syntax, logic and runtime errors
- Providing useful error information to AI
- Identifying root causes
- Applying and checking fixes
- Improving readability
- Generating code explanations and documentation.

06

AI-Assisted Automation for Business Tasks

- Identifying repetitive tasks suitable for automation;
- Defining triggers, inputs, actions and outputs
- Generating simple scripts; processing sample CSV data
- Automating calculations and report preparation
- Handling missing or invalid information.

07

Testing, Data Handling and Responsible Use

- Writing test cases from business requirements
- Testing normal, invalid and boundary inputs
- Checking calculated results
- Handling credentials and sensitive data
- Recognising prototype limitations
- Using backups and human approval where needed.

08

Capstone Project and Demonstration

- Selecting a business use case
- Refining the application and adding an automation feature
- Troubleshooting and testing
- Preparing user instructions
- Presenting the prototype
- Identifying improvements and next steps.



AI TOOLS & APPLICATION COVERED

Tool / Application	Application in Training	Subscription Fees
Claude AI	Translate business requirements into coding prompts, generate and explain code, troubleshoot errors and prepare documentation.	PRO Plan : USD24 Per Account
Claude Code	Assist with editing project files, implementing features, debugging and running checks within a coding project.	
Visual Studio Code (VS Code)	Create, organise and edit project files; run scripts and review AI-generated code.	
HTML, CSS & JavaScript	Build application interfaces, forms, calculations, input validation and interactive features.	
Python	Develop simple automation scripts for data processing, repetitive calculations and report preparation.	
CSV / Excel Files	Provide sample business data for automation exercises and validate processed outputs.	FREE
Browser Developer Tools	Inspect application behaviour, identify JavaScript errors and test functionality.	FREE

SESSION PLAN



Day 1 — AI Coding Foundations & Application Development

Time	Module / Session
10:00–10:30	Course Introduction & Pre-Training Assessment
10:30–11:15	Module 1: Introduction to AI-Assisted Coding
11:15–11:30	Morning Break
11:30–13:00	Module 2: Understanding Basic Coding Logic
13:00–14:00	Lunch Break
14:00–15:30	Module 3: Prompt Engineering for Coding Tasks
15:30–15:45	Afternoon Break
15:45–17:30	Module 4: Building a Simple Business Application with AI
17:30–18:00	Application Review, Q&A & Day 1 Wrap-Up

SESSION PLAN



Day 2 — Debugging, Automation & Practical Project

Time	Module / Session
10:00–10:15	Day 1 Recap & Project Review
10:15–11:15	Module 5: Debugging and Code Improvement with AI
11:15–11:30	Morning Break
11:30–13:00	Module 6: AI-Assisted Automation for Business Tasks
13:00–14:00	Lunch Break
14:00–15:00	Module 7: Testing, Data Handling and Responsible Use
15:00–15:30	Module 8: Capstone Project — Development & Refinement
15:30–15:45	Afternoon Break
15:45–17:15	Capstone Project — Automation Integration & Testing
17:15–17:45	Project Demonstrations & Trainer Feedback
17:45–18:00	Post-Training Assessment & Course Wrap-Up

LEARNING OUTCOMES



Upon completion of this programme, participants will be able to:

- Explain the benefits and limitations of AI-assisted coding.
- Recognise basic programming concepts and interpret simple AI-generated code.
- Write structured prompts that translate business needs into coding requirements.
- Generate and refine code to build a simple business tool.
- Use AI assistance to identify errors and improve code readability.
- Develop a basic automation script for repetitive tasks.
- Test application behaviour and validate outputs against requirements.
- Demonstrate a working prototype and explain its practical use.



TRAINING METHODOLOGY

The programme combines **interactive explanations, live AI coding demonstrations, guided hands-on exercises and business case discussions.**

Participants practise prompting, code generation, debugging and automation before completing a capstone project, supported by trainer coaching, testing, presentations and feedback.

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At Hustle, we're of the mindset that every company is unique. Every programme can be tailored to align with your team's unique goals, ensuring maximum relevance and impact. You can reach us for any questions.



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