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FDE BASIC — FOUNDATIONS

COURSE CURRICULUM

10	40 hrs	EVILT	TBD
MODULES	TOTAL HOURS	DELIVERY METHOD	PREREQUISITES

FDE BASIC — FOUNDATIONS CURRICULUM — **MODULES 1 – 3**

PHASE 1 · ANALYSE & DESIGN · 12 hrs

MODULE 1	**Customers First & AI for Stakeholder Management** B1 · 4 hrs	• Outcome-first mindset • discovery questioning (Mom Test) • PR/FAQ basics • stakeholder mapping (power/interest, RACI) • using AI to draft briefs and status updates • **HANDS-ON:** Discovery role-play with a client persona • **HANDS-ON:** stakeholder map • **HANDS-ON:** AI-drafted CXO brief (human-reviewed)
MODULE 2	**Turn Business Problems into AI-Ready Specs · Write Specs that Make AI Deliver Results** B2 · 4 hrs	• AI opportunity canvas • feasibility and pattern choice (prompt / RAG / agent / no-AI) • mapping to Azure AI services • anatomy of an AI-ready spec • acceptance criteria • golden test sets • **HANDS-ON:** Convert a business brief into spec.md with a 10-row golden test set • **HANDS-ON:** peer review
MODULE 3	**Product Dojo — Financial Services & Healthcare** B3 · 4 hrs	• FS: KYC/AML triage, model risk, data residency. Healthcare: discharge summaries, PHI/HIPAA, FHIR basics. Applying the spec method to regulated domains • **HANDS-ON:** Pods produce a one-page spec + risk list for one FS and one Healthcare case • **HANDS-ON:** 5-min read-outs

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FDE BASIC — FOUNDATIONS CURRICULUM

MODULES 4 – 8

PHASE 2 · BUILD, DEPLOY & OPERATE · 16 hrs

MODULE 4

Get Started with AI-Assisted Development

B4 · 4 hrs

- Autocomplete › chat › agentic coding
- GitHub Copilot agent mode
- context engineering
- review discipline
- calling Azure OpenAI with Entra ID (keyless)
- **HANDS-ON:** Scaffold a FastAPI service from the B2 spec
- **HANDS-ON:** AI-generated, human-reviewed tests

MODULE 5

Building with Claude Code · Building with Codex

B5 · 4 hrs

- Claude Code: plan mode, CLAUDE.md, slash commands, MCP. Codex: CLI, AGENTS.md, approval modes. Choosing the right agent for the task
- **HANDS-ON:** Add a RAG endpoint (Azure AI Search) with Claude Code
- **HANDS-ON:** build the next feature with Codex
- **HANDS-ON:** quick comparison

MODULE 6

Observability for AI Agents · AI for Product Metrics

B6 · 4 hrs

- Tracing LLM and tool calls
- OpenTelemetry GenAI conventions
- Application Insights
- cost / latency / quality signals
- metrics tree
- evals as product metrics
- **HANDS-ON:** Instrument the service
- **HANDS-ON:** build a basic dashboard
- **HANDS-ON:** draft a metrics tree for the use-case

MODULE 7

Platform Thinking for Client Scalability · End-to-end Project (start)

B7 · 4 hrs

- Reusable AI platform building blocks
- Azure API Management as AI gateway
- multi-client patterns. Mini-project brief and plan
- **HANDS-ON:** Add a gateway token-limit policy
- **HANDS-ON:** kick off the end-to-end mini project (spec › build)

PHASE 3 · DEPLOY — TAKING AI INTO ENTERPRISE PRODUCTION · 12 hrs

MODULE 8

Guardrails not Guesswork · Defending AI Systems against Emerging Threats

B8 · 4 hrs

- Layered guardrails (input, output, tool)
- Azure AI Content Safety & Prompt Shields
- OWASP Top 10 for LLM Apps (2025)
- prompt injection, data exfiltration, the 'lethal trifecta'
- **HANDS-ON:** Add Prompt Shields to the agent
- **HANDS-ON:** run an injection attack and fix it

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FDE BASIC — FOUNDATIONS CURRICULUM		MODULES 9 – 10
MODULE 9	**MCP Security: Architecture & Attack Surface · Defence & Mitigations** B9 · 4 hrs	• MCP hosts, clients, servers • attack surface (tool poisoning, token passthrough, confused deputy) • OAuth-based authorization • allow-listing and least privilege • **HANDS-ON:** Build a small MCP server • **HANDS-ON:** demonstrate tool poisoning • **HANDS-ON:** secure it with scoped authorization
MODULE 10	**Build & Production Exercise** B10 · 4 hrs	• Production-readiness checklist • deploying to Azure Container Apps • guardrails and telemetry in place • demo storytelling • **HANDS-ON:** Harden and deploy the mini project • **HANDS-ON:** 10-minute demo to panel with feedback

COURSE DETAILS	
Course Overview	• FORGE · Forward Deployed Engineer (FDE) Programme — Basic: Foundations • Foundation-level coverage of every outline topic; related topics are paired into 4-hour sessions • Analyse › Build › Deploy
Programme Phases	• PHASE 1 · ANALYSE & DESIGN · 12 hrs • PHASE 2 · BUILD, DEPLOY & OPERATE · 16 hrs • PHASE 3 · DEPLOY — TAKING AI INTO ENTERPRISE PRODUCTION · 12 hrs
Delivery Method	Ez-Learn Virtual Instructor Led Training (EVILT)
Total Sessions	10 sessions (B1 – B10), 4 hours each
Course Duration	40 hrs