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WEB www.ez-learn.global
PHONE +91 9884146187

FDE ADVANCED — ENTERPRISE DELIVERY

COURSE CURRICULUM

20	80 hrs	EVILT	TBD
MODULES	TOTAL HOURS	DELIVERY METHOD	PREREQUISITES

FDE ADVANCED — ENTERPRISE DELIVERY CURRICULUM — **MODULES 1 – 3**

PHASE 1 · ANALYSE & DESIGN · 24 hrs

MODULE 1	**Customers First** A1 · 4 hrs	• Outcome-led discovery • JTBD & pain/gain • Mom-Test interviewing • Working Backwards PR/FAQ • when AI is not the answer • **HANDS-ON:** Scored discovery role-play • **HANDS-ON:** PR/FAQ v0 • **HANDS-ON:** problem-statement rewrite
MODULE 2	**AI for Stakeholder Management** A2 · 4 hrs	• AI programme stakeholder landscape (sponsor, CISO, risk, data owner) • power/interest & RACI • AI as stakeholder co-pilot • managing accuracy & cost expectations • escalations • **HANDS-ON:** Stakeholder map & RACI • **HANDS-ON:** AI-drafted CXO brief from raw notes • **HANDS-ON:** 'sceptical CISO' role-play
MODULE 3	**Turn Business Problems into AI-Ready Specs** A3 · 4 hrs	• Problem › hypothesis › success criteria • feasibility (data, latency, cost, risk) • pattern selection • Azure AI service mapping with AWS equivalents • **HANDS-ON:** AI Opportunity Canvas for 2 briefs • **HANDS-ON:** feasibility & pattern matrix

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MODULE 4	**Write Specs that Make AI Deliver Results** A4 · 4 hrs	• Spec-driven development • prompt contracts & structured outputs • edge cases • golden datasets & rubrics • spec › plan › tasks (Spec Kit) • Foundry evaluations • **HANDS-ON:** Full spec.md + 20-row golden set • **HANDS-ON:** vague vs precise spec experiment with a coding agent
MODULE 5	**Product Dojo — Financial Services** A5 · 4 hrs	• Model risk (SR 11-7), explainability, EU AI Act high-risk uses, data residency • KYC/AML, credit memo, claims triage cases • **HANDS-ON:** End-to-end Phase-1 flow on an FS case • **HANDS-ON:** model-risk challenge round • **HANDS-ON:** pod read-out
MODULE 6	**Product Dojo — Healthcare** A6 · 4 hrs	• HIPAA/PHI, clinical safety, human oversight • HL7 FHIR • Azure Health Data Services • prior-auth, discharge summary, trial screening cases • **HANDS-ON:** End-to-end Phase-1 flow on a healthcare case • **HANDS-ON:** privacy/safety challenge • **HANDS-ON:** FS vs HC reflection
PHASE 2 · BUILD, DEPLOY & OPERATE · 36 hrs		
MODULE 7	**Get Started with AI-Assisted Development** A7 · 4 hrs	• Agentic coding spectrum • Copilot agent mode • context engineering • review discipline • Azure OpenAI with Entra ID • risks (hallucinated APIs, secrets) • **HANDS-ON:** Service scaffold from spec • **HANDS-ON:** AI-generated test suite • **HANDS-ON:** keyless Azure OpenAI call

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FDE ADVANCED — ENTERPRISE DELIVERY CURRICULUM **MODULES 8 – 11**

MODULE 8	**Building with Claude Code** A8 · 4 hrs	• Plan mode, permissions, checkpoints • CLAUDE.md, slash commands, subagents, hooks, skills • MCP servers • headless CI • enterprise routing via Bedrock / Microsoft Foundry • **HANDS-ON:** RAG endpoint with Claude Code • **HANDS-ON:** command + hook • **HANDS-ON:** GitHub MCP › agent-authored PR
MODULE 9	**Building with Codex** A9 · 4 hrs	• Codex CLI, IDE & cloud tasks • AGENTS.md • sandboxing & approvals • Codex on Azure OpenAI • choosing a standard toolchain for a client team • **HANDS-ON:** Feature via Codex • **HANDS-ON:** AGENTS.md impact test • **HANDS-ON:** 3-agent bake-off scorecard
MODULE 10	**Observability for AI Agents** A10 · 4 hrs	• Agent traces (reasoning, tools, tokens) • OpenTelemetry GenAI • App Insights & Foundry tracing • AI SLOs (p95, cost/task, eval drift) • trace-driven debugging • **HANDS-ON:** Full instrumentation • **HANDS-ON:** AI ops dashboard + alert • **HANDS-ON:** root-cause drill
MODULE 11	**Platform Thinking for Client Scalability** A11 · 4 hrs	• Paved roads • model gateway, prompt registry, shared retrieval, eval service • APIM AI gateway • multi-tenant isolation & chargeback • Well-Architected AI vs AWS GenAI Lens • Team Topologies • **HANDS-ON:** Gateway policies • **HANDS-ON:** platform blueprint for 10 use-cases (capability map + C4 L2)

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FDE ADVANCED — ENTERPRISE DELIVERY CURRICULUM		MODULES 12 – 15
MODULE 12	**AI for Product Metrics** A12 · 4 hrs	• Outcome › product › eval metric chain • HEART • online/offline evals • A/B & phased rollout • AI-driven feedback analysis • ROI narrative • **HANDS-ON:** Metrics tree • **HANDS-ON:** LLM clustering of 500 feedback items • **HANDS-ON:** value dashboard
MODULE 13	**End-to-end Project & Hackathon · Part 1** A13 · 4 hrs	• Brief release (FS or HC track) • rapid discovery • spec + eval set • architecture & ADR • backlog via spec › plan › tasks • **HANDS-ON:** Sprint 1 with architecture pitch & sign-off
MODULE 14	**End-to-end Project & Hackathon · Part 2** A14 · 4 hrs	• Build with agents of choice • evals in CI • deploy to Azure Container Apps (azd / GitHub Actions) • telemetry & metrics wired in • **HANDS-ON:** Sprint 2: live URL + green eval run • **HANDS-ON:** quota-limit curveball
MODULE 15	**End-to-end Project & Hackathon · Part 3** A15 · 4 hrs	• Demo choreography • panel demo (value, spec, build, observability, metrics) • retrospective • production-gap backlog • **HANDS-ON:** Demo day to EY panel • **HANDS-ON:** scoring & retro

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PHASE 3 · DEPLOY — TAKING AI INTO ENTERPRISE PRODUCTION · 20 hrs

MODULE 16	**Guardrails not Guesswork for AI Agents** A16 · 4 hrs	• Input/output/tool/policy/HITL layers • Content Safety, Prompt Shields, groundedness • Bedrock Guardrails & NeMo comparison • budgets & circuit breakers • **HANDS-ON:** Layered guardrails on hackathon agent • **HANDS-ON:** approval gate • **HANDS-ON:** 25-case adversarial eval
MODULE 17	**Defending AI Systems against Emerging Threats** A17 · 4 hrs	• OWASP LLM Top 10 (2025) & agentic threats • lethal trifecta • STRIDE + MITRE ATLAS threat modelling • PyRIT red teaming • Defender for Cloud AI • AI incident response • **HANDS-ON:** Threat model • **HANDS-ON:** PyRIT red-team run • **HANDS-ON:** AI incident runbook
MODULE 18	**MCP Security: Architecture & Attack Surface** A18 · 4 hrs	• MCP architecture & transports • trust boundaries • tool poisoning, rug pulls, injection via tool output, confused deputy, token passthrough • supply-chain risk • **HANDS-ON:** Build MCP server • **HANDS-ON:** sandboxed attack lab • **HANDS-ON:** MCP attack-surface map
MODULE 19	**MCP Security: Defence & Mitigations** A19 · 4 hrs	• OAuth 2.1 authorization & scoped tokens • Entra ID • APIM in front of MCP • Key Vault • allow-listing, version pinning • runtime least privilege & monitoring • **HANDS-ON:** Secure MCP with Entra ID • **HANDS-ON:** APIM policy + audit logs • **HANDS-ON:** re-test attacks

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MODULE
20

Build & Production Exercise

A20 · 4 hrs

- Production-readiness checklist
- canary via Container Apps revisions
- runbooks, SLOs, on-call handover
- go-live defence with CISO / Risk / Ops personas
- **HANDS-ON:** Harden build
- **HANDS-ON:** live chaos drill (outage + injection) during readiness review
- **HANDS-ON:** final read-out

COURSE DETAILS

Course Overview	• FORGE · Forward Deployed Engineer (FDE) Programme • One 4-hour session per outline topic, plus extended time for the hackathon (3 sessions) and two domain dojos • Domain Dojos · Hackathon · Production Exercise
Programme Phases	• PHASE 1 · ANALYSE & DESIGN · 24 hrs • PHASE 2 · BUILD, DEPLOY & OPERATE · 36 hrs • PHASE 3 · DEPLOY — TAKING AI INTO ENTERPRISE PRODUCTION · 20 hrs
Delivery Method	Ez-Learn Virtual Instructor Led Training (EVILT)
Total Sessions	20 sessions (A1 – A20), 4 hours each
Course Duration	80 hrs