Modern Product Engineering: Design Thinking, Architecture & Frontend

Find the right problem with design thinking, then architect and build it in React with AI-assisted delivery.

DURATION	FORMAT	LEVEL	LABS
60 hours	Onsite, online or hybrid	Intermediate	Cloud sandbox included

About this programme

A 60-hour programme in two phases. Phase one brings business analysts, product owners, designers and engineers together to frame customer and business problems and agree a product strategy. Phase two takes the technical cohort from domain modelling and architecture decisions to an enterprise React application built with a component library, integrated APIs and AI-assisted development. Both phases end in a capstone, so teams finish with a product vision and working software.

Who it is for: Phase 1: product engineers, BAs, product owners, UX designers and leads. Phase 2: developers, tech leads and architects

What your team will be able to do

- Frame customer and business problems with empathy maps, jobs to be done, experience maps and resistance analysis
- Turn problems into product boundaries with domain-driven design and event storming
- Choose frontend architecture and design patterns, and justify them in decision records
- Translate UX into accessible component hierarchies and design tokens
- Build an enterprise React application with integrated APIs, using AI assistance with human review

Before you start

- Phase 1: familiarity with your business processes and digital products
- Phase 2: working JavaScript, web and API basics, and Phase 1 completed

Course outline

We send the module-by-module outline with your proposal, adapted to your team's tools and goals.

Assessment and certification

How learning is checked

- A short knowledge check on day one and again at the end, so you can see each person's progress
- Graded hands-on labs in every module, reviewed by the trainer
- A final exercise that applies the programme to a problem like your team's own

Certificate and exams

- Participants who complete the programme receive a Cognitive Networks AI certificate of completion.

Formats and cohort size

- Onsite: At your office or a venue you choose, in full days.
- Online, live: Instructor-led over video, usually in half-day sessions so people can keep up with work.
- Hybrid: Some days in a room together, the rest online. Useful when a team works across cities.

Cohort size: 15 to 25 people per trainer. Larger teams run as parallel cohorts on the same outline, so everyone learns the same thing.

Pricing: We quote per cohort, based on duration, format and number of cohorts. There is no per-seat price list: tell us your team and we send a proposal within one business day.

Bring this programme to your team

Request a proposal at cognitivenetworks.ai/contact?programme=modern-product-engineering

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