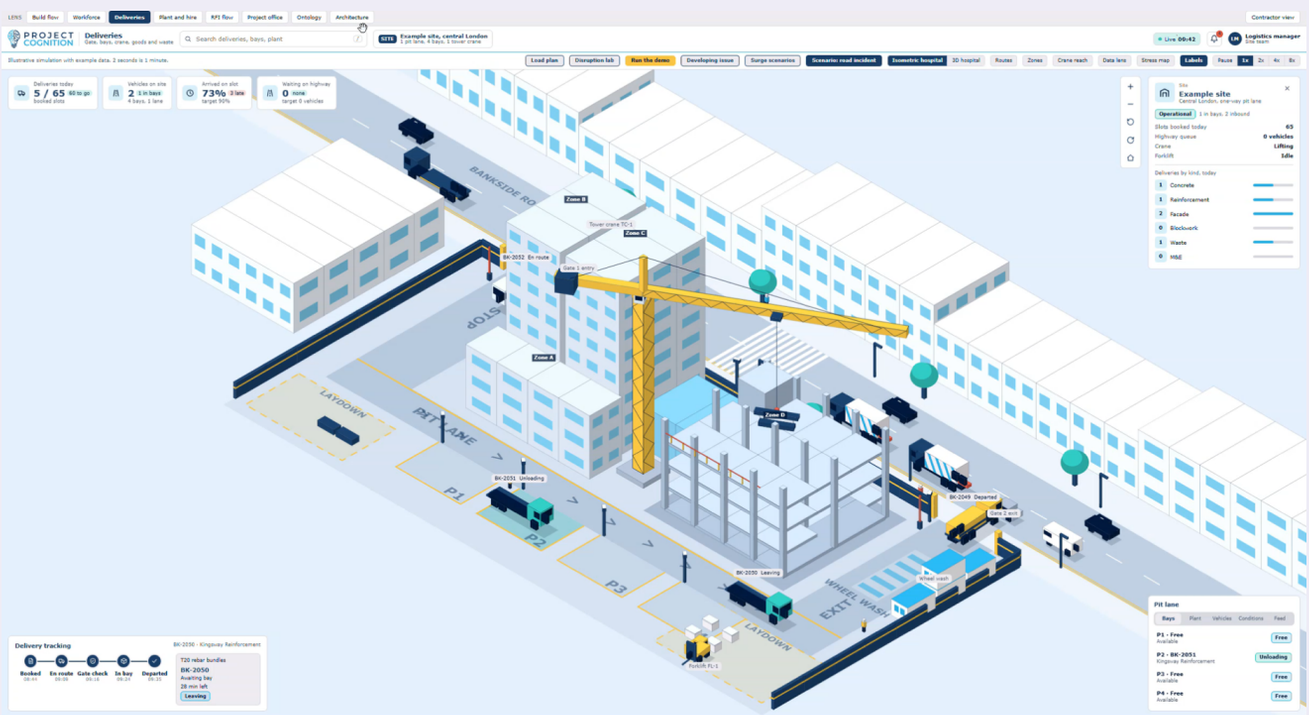
PROJECTING SUCCESS

Programme Guide

Level 4

AI and Automation for Construction Productivity

Starts 26 November 2026. Eight months. 25 places.



Master flow. Improve construction productivity.

Learn to synchronise design, procurement, resources and site work so every workface has what it needs, when it needs it. Build simulation modules, AI harnesses and shared ontologies to support that flow.

25 people. Three modules each.
75 modules of practical capability.

Enquire for details

Delivered by Projecting Success
Powered by Project Cognition

Built around construction and the problems you need to solve

Keep design information, approvals, procurement, deliveries, people and plant in sync with workface need dates. Use AI and simulation to expose missing prerequisites before they interrupt flow.

Tailored at three levels

Your sector

Work with construction scenarios covering site operations, delivery logistics, design information, procurement and the project office. Explore how these activities depend on one another.

Your role

Choose challenges relevant to your contribution: a planner testing sequencing, a logistics manager coordinating deliveries, a commercial professional tracking approvals, or a project team improving information flow.

Your organisation

Shape practical builds around your priorities, available data, approved tools and governance. Use simulated or appropriately approved information to develop and test ideas before considering workplace application.

Who is the course for?

Construction and project delivery professionals in planning, project controls, site operations, logistics, commercial, procurement, PMO, design coordination and improvement roles.

What should you bring?

Curiosity, practical experience and a willingness to challenge existing processes. You do not need to be a software developer. Bring a delivery challenge you want to understand and improve.

Your construction experience is the starting point. Build the skills to put it to work in new ways.

What you will learn

Eight connected areas, applied through practical builds over eight months.

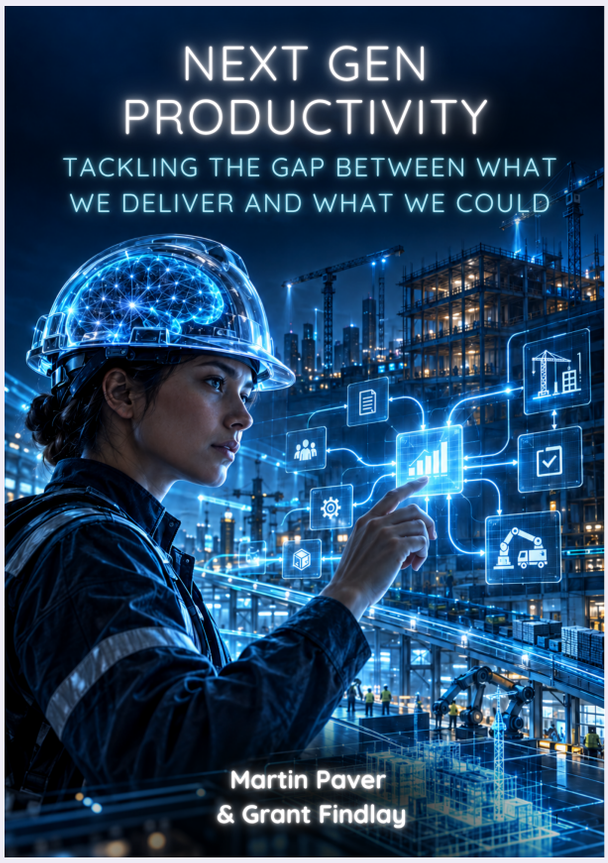
Learning area	Construction application
Flow, readiness and systems thinking	Synchronise design, procurement, resources and decisions against workface need dates. Model prerequisites, queues and handovers.
AI foundations and effective prompting	Use AI to interrogate information, structure analysis and support decisions. Check outputs, assumptions and limitations.
Data, ontologies and knowledge graphs	Use ontologies and knowledge graphs to provide shared definitions and relationships for activities, components, locations and events.
Workflows, interfaces and integration	Connect modules through defined inputs, outputs and interfaces. Automate information handling and coordination across project systems.
AI harnesses and agents	Build an AI harness: the layer that gives agents context, tools and boundaries. Coordinate tasks with human review and escalation.
Simulation and scenario testing	Explore deliveries, crane use and design-information flow. Test changes to resources, sequencing, capacity and operating rules.
Testing, governance and operation	Version modules, prompts and data. Test reliability, access controls and recovery; plan deployment, monitoring, ownership and maintenance.
Scalable capability and value	Build three modules with reusable interfaces, tests and clear assumptions. Assess the value provided to decision-making and plan how modules can combine and scale.

From first build to working portfolio

Choose a problem with your organisation. Build, test and refine your modules. Show how they work, what the evidence supports and what needs further development.

Putting Next Gen Productivity into action

The book argues that productivity is lost when signals, decisions and consequences are distributed across different organisations. This course puts its ideas to work.



Next Gen Productivity

Close the daily loop

Connect a warning to the person who can act in time. Test whether to absorb a disruption, restore the plan or adapt.

Re-plan across boundaries

Check whether one trade's recovery delays another. Test workface readiness, shared resources and handovers together.

Make learning travel

Keep shared definitions, assumptions, tests and lessons with each module so another team can understand and adapt it.

Build something others can use

Give each module a clear purpose, tests and limits. Record your contribution and the next step towards use.

75 modules of practical capability

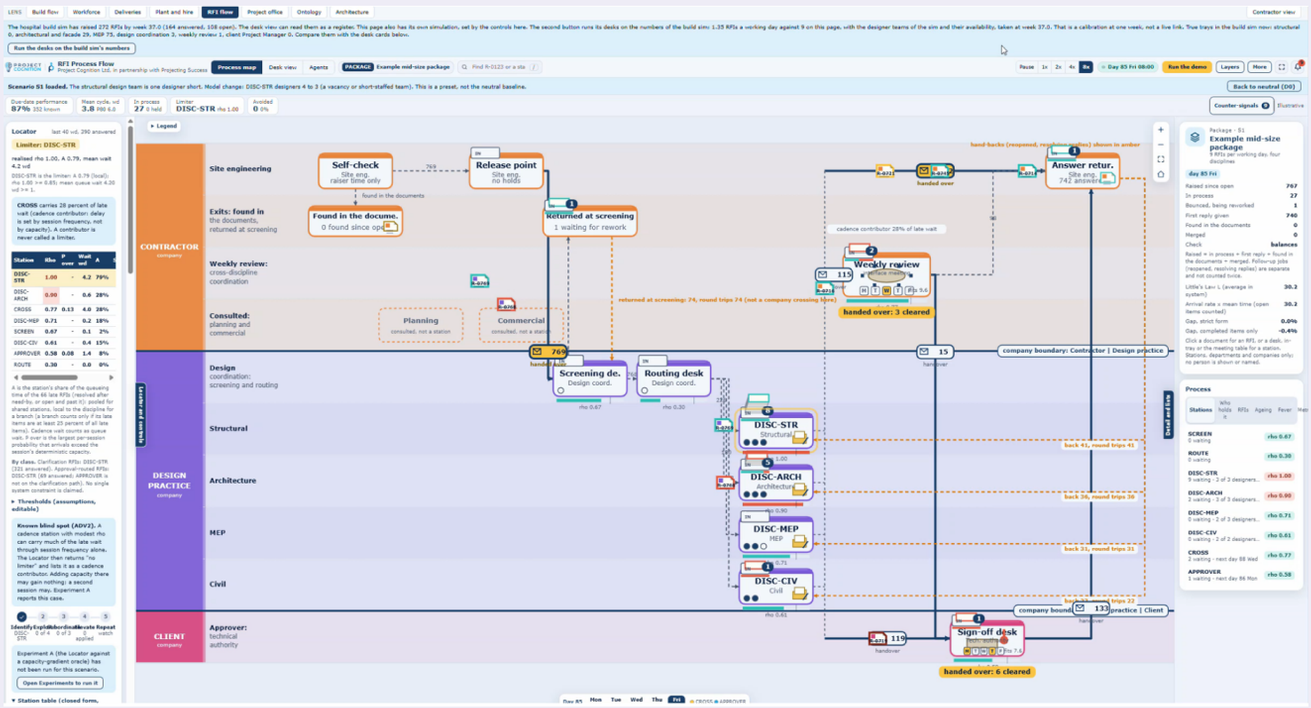
Each participant will develop three simulation modules. The cohort's 75 modules of practical capability will contribute to a growing body of work, with a shared ambition to fundamentally transform project delivery.

Hear from Martin Paver and Grant Findlay and help put the ideas into practice.

See how the project behaves

Explore interconnected work, then build your own modules to investigate the decisions that matter.

Design information: where does work wait?



See how capacity, review cycles and rework affect the flow of design answers to the site.

When could weather disrupt the lifting plan?



Illustrative Project Cognition simulations. Figures and dates shown are example scenario data.

Keep every workface ready and every strand in sync

Start with the workface and its need date. Ask what must be ready, who owns each prerequisite and when it must be completed or provided. Build three modules around the interfaces that matter to your organisation.

01 Crane and weather decisions

What happens if tomorrow's wind removes a lifting window?

Model lift demand, operating limits and alternative sequences. Compare the effect on deliveries, available work and the next handover.

02 Design answers before work stops

Which unanswered query will block work next?

Link design queries to workface need dates. Test response rules and escalation triggers, and show which decisions still have time to help.

03 Workface readiness and handovers

Does this workface have everything it needs to start?

Connect design, approvals, completed and accepted preceding work, people, materials, plant, access and permits. Trace missing prerequisites to an owner and test the effect on the next trade.

Build the enablers as well as the model

Shared ontologies identify the same workfaces, resources and events across modules. Data connections and interfaces keep plans aligned; AI harnesses coordinate tools and agents, with tests, version control and human oversight.

Learning outputs are tested demonstrators. Live use needs separate approval, validation and ownership.

Make time to build something that matters

You know where construction delivery gets difficult: competing demands on a crane, a late design answer or a workface that is not ready. Over eight months, you'll turn challenges like these into three working simulation modules.

Put the learning to work

Learn new AI and automation skills as you model how the strands of delivery depend on one another. Test how a late decision or a change in sequence affects workface readiness and the next trade. Keep the tests, reasoning and limits with your work.

A substantial commitment, with a practical return

For the apprenticeship route, learners with no relevant prior learning need at least **420 hours of off-the-job training**. Across eight months, that averages **about 12 hours a week**, including eligible time learning to build and test your modules.

This is a substantial commitment for you and your employer. Agree protected learning time within your paid working hours before joining. We'll confirm your individual training plan and schedule with you.

Why the effort matters

You'll finish with three modules you can run, demonstrate and explain, with test scenarios and clear limits. Your organisation gains capability focused on its own delivery problems, and a basis for testing changes that could reduce waiting, protect handovers and improve flow.

Build your skills. Help move the dial on construction productivity.

Eight months of learning. Three modules you can demonstrate.

For you

• Build three working simulation modules around construction decisions that matter to you.

• Test an intervention before proposing it on a live project, and explain its effect on the next trade.

• Show employers a portfolio of models, test results and the reasoning behind your decisions.

• Learn the AI harnesses, ontologies and integration patterns that help modules connect and scale.

For your organisation

• Build capability to keep design, procurement, logistics and site work aligned to workface need dates.

• Compare options for resources, sequencing and information flow before committing to a change.

• Retain working models, test records and documentation for further development, on agreed terms.

• Turn lessons from one interface into capability another team can adapt.

Start with your delivery challenge

Tell us where your project loses flow. We'll discuss your learning needs, approved tools and data, and the support your employer needs to provide.

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Eight months. 25 places.

Enquire for details

Talk to us about suitability, fees, funding and your training plan.

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