Procurement Automation with AI Agents Course

Online Certificate Program

Last update: February 7, 2026

New message from Slackbot
You received a file: Minutes of the meeting

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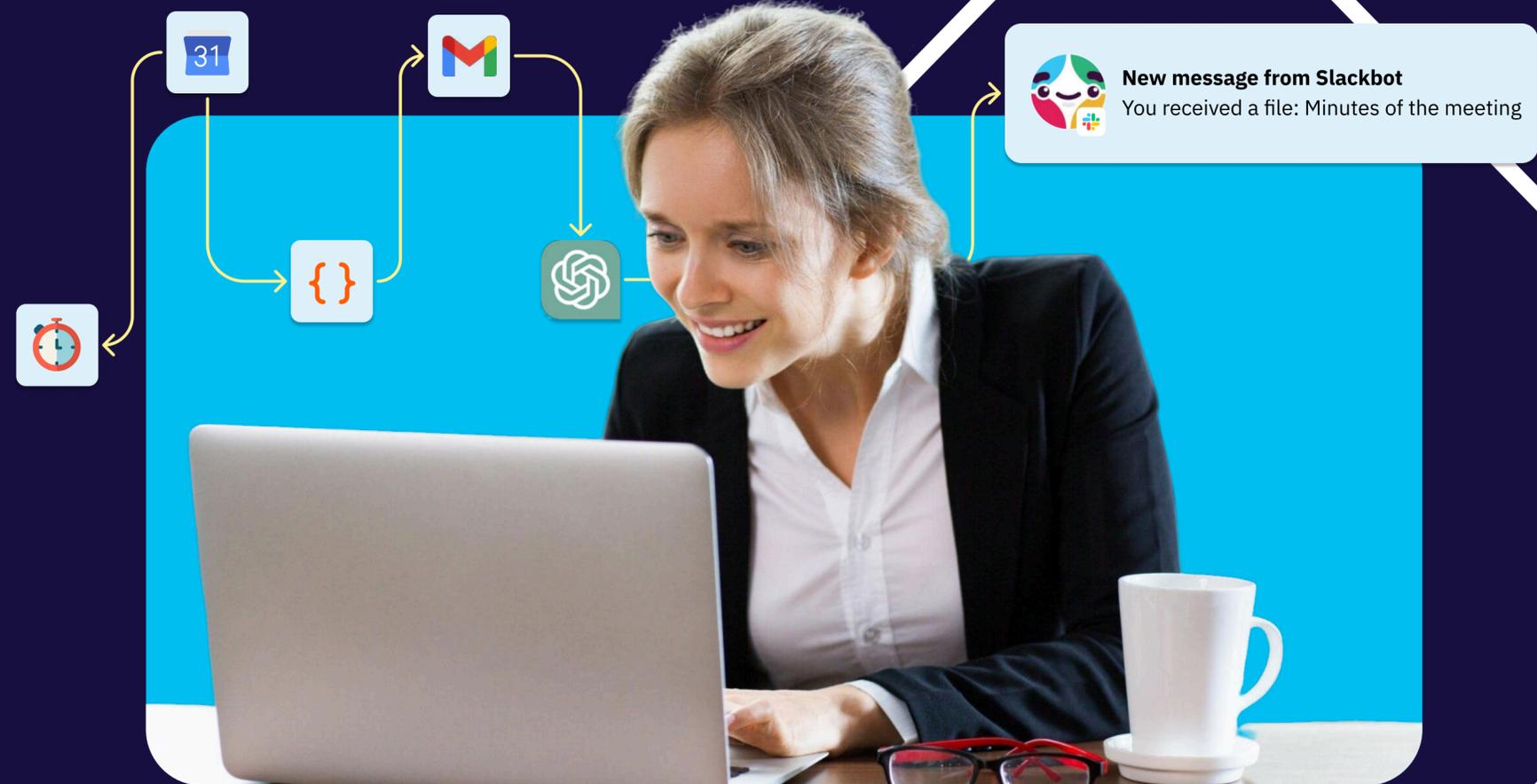
An overview

What can you expect of this program?

Procurement Automation with AI Agents Course

This course is designed for procurement professionals and team leaders who want to transition from basic AI usage use to building automated AI Agents. This course is perfect if you want to increase productivity and reduce errors in repetitive tasks.

You will learn how to identify the right processes to automate, design agents using the Observe–Plan–Act framework, and collaborate with technical teams to bring them to life. Through video lessons, demos, and guided exercises, you'll gain the skills to create AI agents that save time and reduce manual work. You'll be able to maintain transparency, control, and data security. By the end of the course, you'll have the skills to design and launch your own procurement AI agent.

– Marijn Overvest, founder Procurement Tactics

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Online, *self-paced learning*

Subtitles *in 5 different languages*

AI Implementation **Templates**

Interactive **case studies**

6 hours *study material*

12 months *course access*

Official **certificate** *upon completion*

Ready-to-use prompts *you can copy/paste*

Reading materials & **bonus content**

60-day money-back *guarantee*

200+ companies trust us

About Your Instructor

Ralph de Groot

Your instructor for this course is Ralph de Groot, one of the founders of Procurement Tactics. Author of the book 'Artificial Intelligence in Procurement Anno 2026' and previous experience in AI startups. He focuses on integrating AI into the entire procurement process, from automating routine tasks to enhancing more complex, strategic activities.

Ralph specializes in creating courses that combine theory, ethical considerations, and practical strategies for using AI tools. One of his key areas of expertise is crafting effective AI prompts and applying AI to various procurement tasks like preparing for negotiations, conducting negotiations, creating RFQs and RFIs, drafting contracts, processing invoices, and managing supplier relationships.

His guidance will help you confidently use AI Agents, even if you don't have any coding skills.

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Learning objectives
And take your career to the next level

What you will learn

☑ **Foundational understanding of AI agents**

Gain a clear understanding of how AI agents differ from traditional automation and language models. Learn how they observe, plan, and act to manage tasks such as supplier onboarding, reporting, and contract tracking, allowing you to focus on higher-value work.

☑ **Identify automation opportunities in your daily workflows**

Use a simple framework to find tasks that can be automated through AI agents. You will learn to evaluate your routines and recognize which processes can be handled efficiently and safely by intelligent automation.

☑ **Build, test, and refine your own AI agent step by step**

Follow a guided process to create your personal Morning Brief Agent that summarizes emails, prioritizes tasks, and automates simple actions. Develop the confidence to maintain, improve, and expand your agent-based workflows.

☑ **Recognize and manage the ethical and data risks of intelligent automation**

Understand how to prevent bias, maintain human oversight, and ensure fairness and transparency when using AI agents in procurement. Learn to apply responsible automation practices that build trust and deliver consistent results.

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Curriculum structure

Practical. Comprehensive. Game changing.

1. What Is An AI Agent And Why It Matters
6 lessons

Course Introduction	Introducing AI agents	The power of AI agents	Getting Started with AI Agents

Automate your to-do list with an AI agent   Navigating Ethical Risks

2. Designing Your First Agent Blueprint
5 lessons

Context of the Automation   A Brief Description of What Needs to be Done   Building a business case for an AI agent   Success Criteria

Definition of Done (DoD)

3. How To Actually Build An AI Agent (Without Coding Knowledge)
5 lessons

The Assistant: "Your First Agent"   The Operator: "Teaching It to Act"   The Learner: "Making It Self-Improving"

The Engineer: "Fixing and Improving Your Agent"   Module 3 Wrap-Up

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1. What Is An AI Agent And Why It Matters

In this module, you'll get a clear understanding of what AI agents are and how they differ from traditional automation or standard LLM tools. You'll learn what makes agents powerful in procurement, how the Observe–Plan–Act loop works, and what today's agent tools can already do.

You'll explore simple, hands-on examples that show how agents think, plan, and take action, so you can start spotting opportunities in your own workflows.

By the end of this module, you'll know where AI agents fit in procurement work and why they're becoming essential for automating high-value tasks.

Content

1. Course Introduction
2. Introducing AI agents
3. The power of AI agents
4. Getting started with AI agents
5. Automate your to-do list with an AI agent
6. Navigating ethical risks

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What you can expect

2. Designing Your First Agent Blueprint

In this module, you learn how to shape an automation idea into a clear, structured blueprint. You'll define why the automation matters, what problem it solves, and how it connects to your organization's strategic goals.

You'll use a practical framework to break your idea into the essential components any builder needs. This includes estimating the value of the automation, identifying measurable benefits, and describing how the workflow should operate using user stories, workflow maps, and simple If–Then logic.

You'll also define the exact data and systems the agent relies on, and you will flag any dependencies or blockers that could influence the build. The result is a complete Agent Requirement Package that translates your idea into something a technical specialist can build immediately.

And if you want to build the agent yourself, this blueprint will give you everything you need to do that in Module 3.

Content

1. Context of the automation
2. A brief description of what needs to be done
3. Building a business case for an AI agent
4. success criteria
5. Definition of Done (DoD)

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3. How To Actually Build An AI Agent (Without Coding Knowledge)

In this module, you bring everything together by building a complete, working AI agent from scratch. You'll create the Morning Brief Agent. An AI agent that checks your inbox, filters noise, summarizes key messages, and delivers a short audio briefing to your workspace.

You will follow a clear, step-by-step process that moves through four builder mindsets: Assistant, Operator, Learner, and Engineer. Each mindset adds new capabilities. You'll start with a simple version that fetches and summarizes your emails, then add filtering, scoring, and self-improving logic. You'll also learn how to test, debug, and maintain the agent so it runs reliably.

Everything is designed so you can build the agent yourself, even with zero coding experience. By the end of this module, you'll have a fully functioning AI agent and the confidence to automate more of your own workflows.

Content

1. The Assistant: "Your First Agent"
2. The Operator: "Teaching It to Act"
3. The Learner: "Making It Self-Improving"
4. The Engineer: "Fixing and Improving Your Agent"
5. Module 3 Wrap Up

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Learn in demand skills

Take your career to the next level

Real-world projects

Develop practical skills through learning from real-world examples and studying dozens of inspiring case studies.

Self-paced online learning

Learn anywhere, anytime, and at your own pace with our fully online training program.

Personal coach & practitioner community

Contact your personal coach if you need any assistance or input. and collaborate with procurement professionals from around the world.

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01
Courses
Structured learning to develop knowledge and skills

07
Live Group Sessions
Get the support and interaction you need

02
Coaching
Support learning & overall career growth

E-LEARNING PLATFORM
All-in one platform

06
Workshops
Tailor-made impact sessions for your team

Impact Measurements
Support learning & overall career growth
03

Assessments
Identify learning opportunities & track progression over time

Resource Library
On-the-job support with templates & playbooks

05

04

Our Learning Methodology

Enabling learners to be outstanding

1. TELL

Learners understand facts, concepts, processes, and learn best practices.

2. SHOW
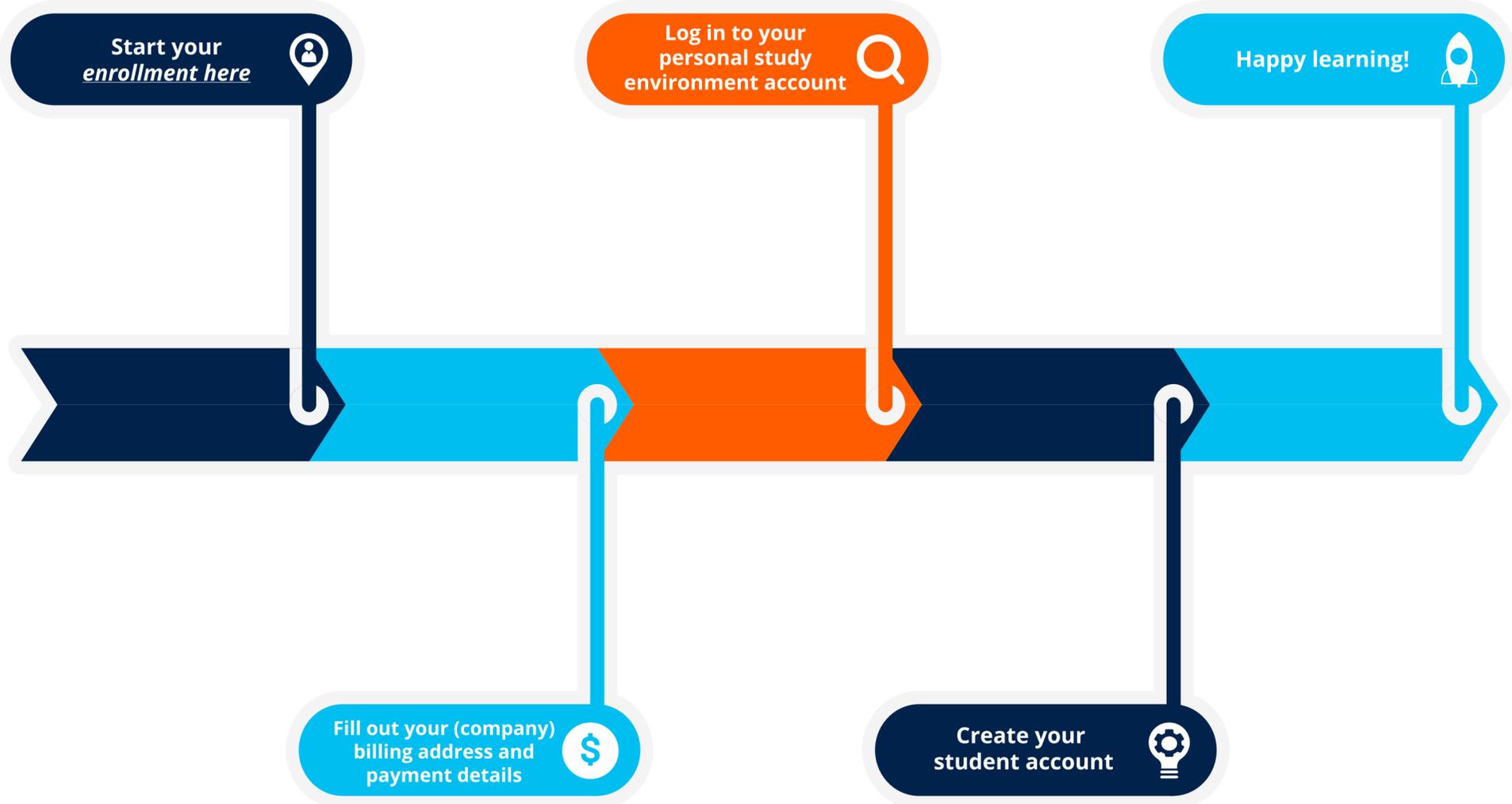
Learners see examples to bring the concepts to life.

3. DO

Learners practice skills and concepts through hands-on activities and case studies.

4. APPLY

Learners are given guides and templates so they can walk into their work the next day and apply what they've learned.

How to enroll

Enroll today

Start your *enrollment here*

Log in to your personal study environment account

Happy learning!

Fill out your (company) billing address and payment details

Create your student account

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IBM   Walmart   Shell   IKEA   FrieslandCampina   HELA   SCIEX

ING   M   Ahold Delhaize   VITACRESS   koffievoordeel.nl   zijerveld