



BaselineSkills

IREB AI4RE MICRO-CREDENTIAL

AI FOR REQUIREMENTS ENGINEERING

AI4RE

FROM AI AWARENESS TO RESPONSIBLE REQUIREMENTS ENGINEERING CAPABILITY

Understand the AI. Practise the judgement. Apply it at work.

The IREB AI4RE micro-credential builds a structured understanding of how Artificial Intelligence can be applied responsibly in Requirements Engineering. At Baseline Skills, you go beyond concepts through realistic exercises and IREB in Practice — powered by ReqDrive, an AI-powered Requirements Engineering platform.

“Learn how AI drafts. Practise deciding what to trust. Apply it with ReqDrive.”

Course at a Glance

Course	AI4RE Micro-Credential
Duration	1 Day
Delivery	Live Online • Classroom • Corporate / On-site
Learning approach	Instructor-led learning • Practical exercises • Exam preparation

Why This Course?

AI can draft a requirement in seconds — and sound completely confident while getting it wrong. It can cite a standard that doesn't exist, embed a bias from its training data, or quietly drop a security requirement because the context window overflowed. The real skill is not using AI. It is knowing when to trust it, when to challenge it, and when to fall back on your own engineering judgement.

Three Layers of Learning

Certification

Build your understanding of the IREB AI4RE body of knowledge and prepare for the micro-credential examination.

Capability

Practise recognising AI risks, engineering better prompts, and judging AI output against RE quality criteria through realistic scenarios.

Application

Use ReqDrive to apply AI-assisted Requirements Engineering techniques to realistic requirements and work products.

Course Modules

Module 1 — Understand the AI Toolkit

Not every AI is a chatbot — know the toolkit before you reach for it.

You will learn

- The five key AI technology families: machine learning, computer vision, natural language processing (incl. LLMs), robotics, and expert systems
- What happens behind the scenes of a chatbot: input → pre-processing → context assembly → inference → post-processing → output
- The difference between fine-tuning and Retrieval-Augmented Generation (RAG), and when each is the right choice

“Knowing what an AI can do is the first step to knowing when not to use it.”

Module 2 — Think Like an LLM User, Not a Believer

LLMs predict. They don't understand. Once that lands, everything else follows.

You will learn

- How LLMs generate text through probabilistic next-token prediction, not reasoning
- Why the same prompt can produce different answers, and what “temperature” controls
- Embeddings and vectors — how “requirement” ends up mathematically closer to “stakeholder need” than to “database schema”

“The most useful mental model for an LLM is a powerful autocomplete — a drafting assistant, not a domain expert.”

Module 3 — Engineer Better Prompts

The same AI, given better instructions, produces dramatically better requirements.

You will learn

- System context vs. user context, and why missing context produces plausible-sounding but useless output
- Prompting patterns: Role-Task-Format (RTF), Chain-of-Thought, and CRISPE
- Prompting techniques: zero-shot, few-shot, and template-based prompting

“A vague instruction invites a vague continuation. A precise one guides the output toward your standard.”

Module 4 — Manage Risk and Responsibility

AI accelerates RE. It also accelerates mistakes, if nobody is watching.

You will learn

- Eleven concrete risk categories, including hallucination, false precision, bias amplification, data leakage, IP violations, model drift, and over-reliance
- Transparency obligations under regulations such as the EU AI Act, and when human review satisfies them
- The Requirements Engineer's expanded role: AI process designer, prompt designer and quality reviewer, risk and compliance manager, and stakeholder communicator and trust builder

“AI intensifies, rather than replaces, critical thinking in RE.”

Module 5 — Apply AI Across the RE Lifecycle

From the first stakeholder conversation to the final traceability matrix — where AI actually helps.

You will learn

- Elicitation: using AI for domain exploration, stakeholder-interview transcription, and requirement extraction across sources
- Documentation: formulating requirements and user stories, then transforming them into models, prototypes, and audience-specific summaries
- Validation: using AI to catch inconsistency and terminology drift, while judging value-orientation and necessity yourself
- Management: AI-assisted attribute assignment and requirements prioritization

“AI can accelerate every RE activity. None of them stop being your responsibility.”

Module 6 — AI Terminology Reference

Your quick-reference glossary for working fluently with AI in RE.

You will learn

- Chatbot · Chain-of-thought · Context window · Deep learning · Embeddings · Expert systems · Fine-tuning · Few-shot / zero-shot learning · Hallucination · Machine learning · Natural language processing · Prompt · Prompt engineering · RAG · Robotics · System prompt · Temperature · Token · Transformer · Vector

IREB in Practice — Powered by ReqDrive

ReqDrive is integrated into every module as an AI-assisted practice environment. The objective is not to teach a software product; it is to help learners experience how AI4RE concepts can be applied, challenged and improved in a realistic workflow.

LEARN Understand the AI4RE concept or technique.

PRACTISE Apply it to a realistic AI-in-RE scenario.

ANALYSE Examine the quality and trustworthiness of the AI output.

IMPROVE Challenge assumptions and refine the result.

VALIDATE Review the result from a human, engineering perspective.

APPLY Connect the practice to your own AI-supported workflow.

“AI accelerates the work. The Requirements Engineer owns the thinking.”

What You Will Be Able to Do

- Differentiate among AI technology types and identify the right one for a given RE task.
- Explain what happens behind the scenes of a chatbot, and compare fine-tuning with RAG.
- Explain that LLMs are probabilistic text predictors, not reasoning systems.
- Apply system and user context to sharpen AI output.
- Use prompting patterns (RTF, Chain-of-Thought, CRISPE) and prompting techniques (zero-shot, few-shot, template-based).
- Name and recognise the major risk categories of using AI in RE.
- Explain the Requirements Engineer's expanded role in AI-supported processes.
- Identify where AI can support elicitation, documentation, validation, and requirements management.
- Critically evaluate and curate AI-generated requirements, models, and artefacts.
- Apply human judgement and validation at every stage of AI-assisted RE work.
- Use AI-assisted tools responsibly, transparently, and in line with applicable regulation.
- Prepare systematically for the AI4RE micro-credential examination.

Who Should Attend?

- Requirements Engineers
- Business Analysts
- Product Owners and Product Managers
- Systems Engineers
- Project Managers
- Software Engineers
- Quality professionals
- Anyone using AI tools in a Requirements Engineering context

The course is also suitable for organizations introducing AI tools into their Requirements Engineering practice and wanting a shared, responsible standard for doing so.

Prerequisites

AI4RE is a micro-credential open to anyone involved in Requirements Engineering activities. No prior AI expertise is required. Basic familiarity with Requirements Engineering — such as the IREB CPRE Foundation Level or equivalent practical experience — is helpful but not mandatory.

Course Format

Duration	1 Day
Delivery	Live Online • Classroom • Corporate / On-site
Learning	Instructor-led sessions • Interactive discussions • Worked examples • Individual and group exercises • Examination preparation

Certification

IREB AI4RE Micro-Credential

The course is designed around the IREB AI4RE syllabus and study guide and prepares participants for the AI4RE micro-credential examination.

TRAINING ≠ CERTIFICATION

Baseline Skills provides the training and examination preparation. IREB certification is awarded following successful completion of the applicable certification examination.

Why Learn with Baseline Skills?

- Standards-based learning aligned with the IREB AI4RE syllabus and study guide.
- Practical exercises rather than theory alone.
- Real AI-assisted Requirements Engineering practice, not simulated examples.
- ReqDrive practical labs integrated into every module.
- Real-world scenarios involving hallucination, bias, ambiguity, and incomplete context.
- Certification preparation combined with workplace application.
- Learning from practitioners with industry and training experience.

“The real value of AI training is not how enthusiastic people feel about AI afterwards. It is how carefully they use it when it matters.”

For Organizations — Build a Common AI-RE Capability

A corporate Baseline Skills AI4RE program can combine the IREB framework with organization-specific scenarios, practical AI exercises, ReqDrive labs, and team discussion.

- A shared vocabulary for discussing AI in requirements work
- Common standards for reviewing and validating AI-generated requirements
- Awareness of AI risk categories relevant to regulated and safety-critical domains
- Practical experience with responsible, transparent AI use
- A common practical environment for learning and experimentation

“Don't train people to use AI faster. Train them to use it responsibly.”

What Comes Next?

AI4RE complements the IREB CPRE Foundation Level and provides a foundation for applying AI responsibly across further specialization in Requirements Elicitation, Requirements Management, Requirements Modeling, and RE@Agile, as well as broader Baseline Skills learning paths in Business Analysis, Systems Engineering, Automotive, and AI.

LEARN THE STANDARD • PRACTISE THE SKILL • APPLY IT AT WORK

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