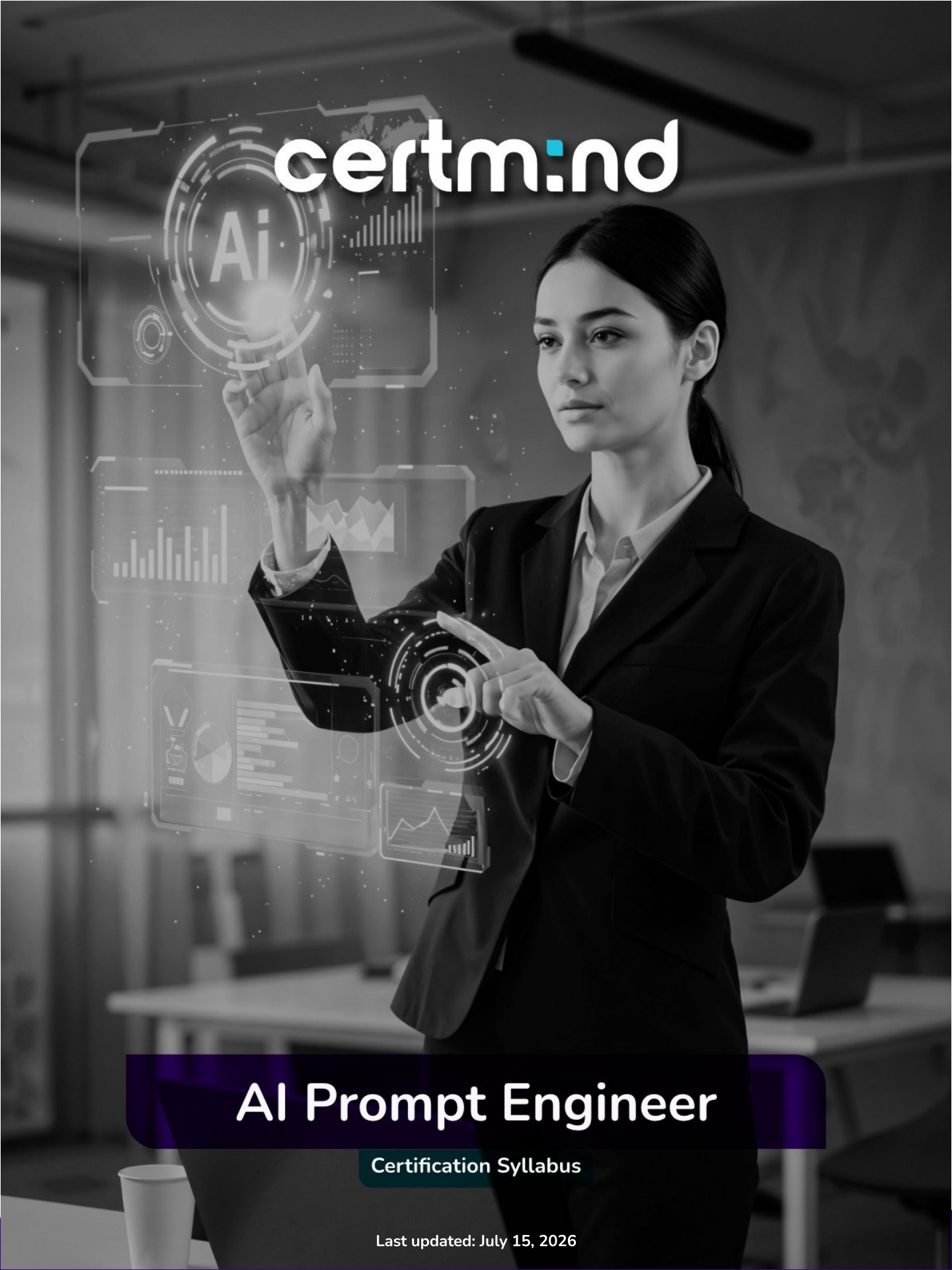




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AI Prompt Engineer

Certification Syllabus

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AI Prompt Engineer

Our goal at CertMind is to certify the skills of professionals working in the Technology context. To achieve this, we seek to ensure that professionals demonstrate their skills and knowledge through the application of an International Certification Exam.

Certification category

Category: Artificial Intelligence

Subcategory: Prompt Engineering

Scope of certification

This certification validates the professional's competency to design, implement, and deploy production-level generative AI solutions, including function calling, autonomous agents, objective evaluation, and enterprise security. The certificate guarantees mastery of fundamental and advanced prompt engineering techniques applicable in any professional work context.

Prerequisites

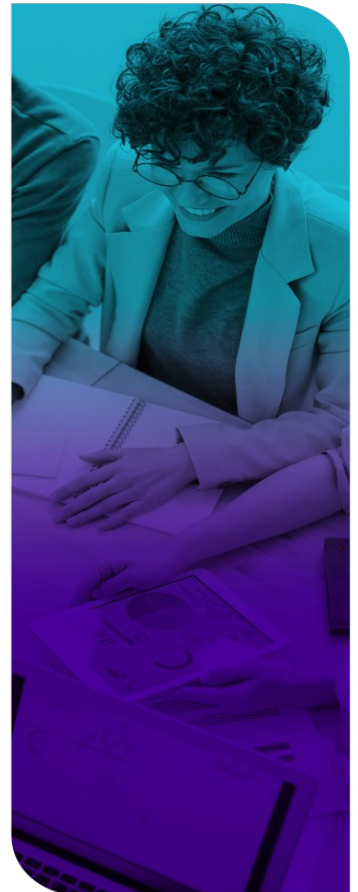
- Be of legal age, according to the minimum age determined by law (according to the National Identity Card that must be uploaded to the platform).
- Have basic knowledge of reading, writing and basic arithmetic: addition, subtraction, multiplication and division.
- Reading and acceptance of the Code of Ethics available on the platform before taking the certification exam.

Code of Ethics

All certified professionals must know, accept and abide by the Code of Ethics, which is available for consultation on the platform.

Recommendations

- It is highly recommended that the professional attend formal training in Prompt Engineering or its equivalent, of at least 12 hours.



Required skills and job description

In order to ensure that the professional has the minimum skills and knowledge that can be applied in a real environment, the following topics are addressed in the exam:

1: Prompt Engineering Fundamentals

Skill Evaluated	Required Competencies
Understand the basic concepts of generative AI, recognize its current limitations, and compare practical approaches to achieve better results from scratch.	1. Introduction to generative AI 2. Current limitations of AI 3. Prompt engineering fundamentals 4. Practical comparison

2: Structuring Effective Prompts

Skill Evaluated	Required Competencies
Design prompts with optimal structure (CTFR framework), order elements logically, iterate systematically, and use few-shot examples with precision.	1. The 4 essential components (CTFR Framework) 2. Optimal order and logical structure of a prompt 3. Iteration techniques 4. Use of examples and references (Few-shot)

3: Advanced Techniques

Skill Evaluated	Required Competencies
Apply Chain-of-Thought for step-by-step reasoning, use role-playing, strategic few-shot learning, and adaptive conditional prompts.	1. Chain-of-thought (step-by-step reasoning) 2. Role-playing 3. Few-shot learning 4. Conditional prompts

4: Professional Applications

Skill Evaluated	Required Competencies
Write high-level professional communication, synthesize complex information, facilitate structured brainstorming, and support analysis and decision-making with AI.	1. Professional writing and communication 2. Research and information synthesis 3. Creativity and structured brainstorming 4. Analysis and evaluation of decisions

5: Specialized Tools and Multimodal Content

Skill Evaluated	Required Competencies
Generate and analyze multimodal content (images + text), integrate productivity tools, and master emerging trends in multimodality.	1. Image generation and multimodal content 2. Document and visual content analysis 3. Integration with productivity tools 4. Emerging trends and tools

6: Advanced Skills and Function Calling

Skill Evaluated	Required Competencies
Configure advanced system prompts, implement function calling, generate structured outputs, orchestrate chaining, and manage large API contexts.	1. Custom instructions and system prompts 2. Function calling / Tool use 3. Structured outputs 4. Prompt chaining and orchestration 5. Advanced context window management 6. Critical API parameters

7: AI Agents and Automation

Skill Evaluated	Required Competencies
Build agents using ReAct, Plan-and-Execute, and reflection patterns; design multi-agent systems with memory; and create enterprise agentic workflows.	1. AI agent fundamentals 2. Agent patterns and architectures 3. ReAct (Reasoning + Acting) 4. Plan-and-Execute 5. Reflexion (Self-Correction) 6. Multi-agent systems 7. "Memory" in agents 8. Enterprise agentic workflows

8: Security, Evaluation, and Vertical Use Cases

Skill Evaluated	Required Competencies
Protect against prompt injection and jailbreaking, evaluate using objective metrics (LLM-as-judge, A/B, regression), and optimize costs in vertical production environments.	1. Security in production systems 2. Prompt injection attacks 3. Data leakage prevention 4. Jailbreaking evolution 5. Objective evaluation 6. Quantitative metrics 7. A/B testing methodology 8. LLM-as-judge 9. Regression testing 10. Cost optimization

Evaluation of skills

CertMind performs two types of assessment to ensure that the professional has the required skills:

1. **Multiple choice questions with only one answer:** this evaluation modality consists of theoretical questions of multiple-choice single answer that seek to measure the degree to which the professional has understood the theoretical concepts of the certification.
2. **Study case:** Its structure is similar to that of the questions mentioned in the previous section, the difference being that, instead of asking about a particular concept, it presents a description of a situation that takes place in the real context and that must be analyzed by the professional in such a way that he/she can first identify the problem and then evaluate which of the options presented reflects the best solution to the problem situation.

skills	Questions (1)	Study case(2)
Understand the basic concepts of generative AI, recognize its current limitations, and compare practical approaches to achieve better results from scratch.	X	
Design prompts with optimal structure (CTFR framework), order elements logically, iterate systematically, and use few-shot examples with precision.	X	X
Apply Chain-of-Thought for step-by-step reasoning, use role-playing, strategic few-shot learning, and adaptive conditional prompts.	X	X
Write high-level professional communication, synthesize complex information, facilitate structured brainstorming, and support analysis and decision-making with AI.	X	X
Generate and analyze multimodal content (images + text), integrate productivity tools, and master emerging trends in multimodality.	X	X

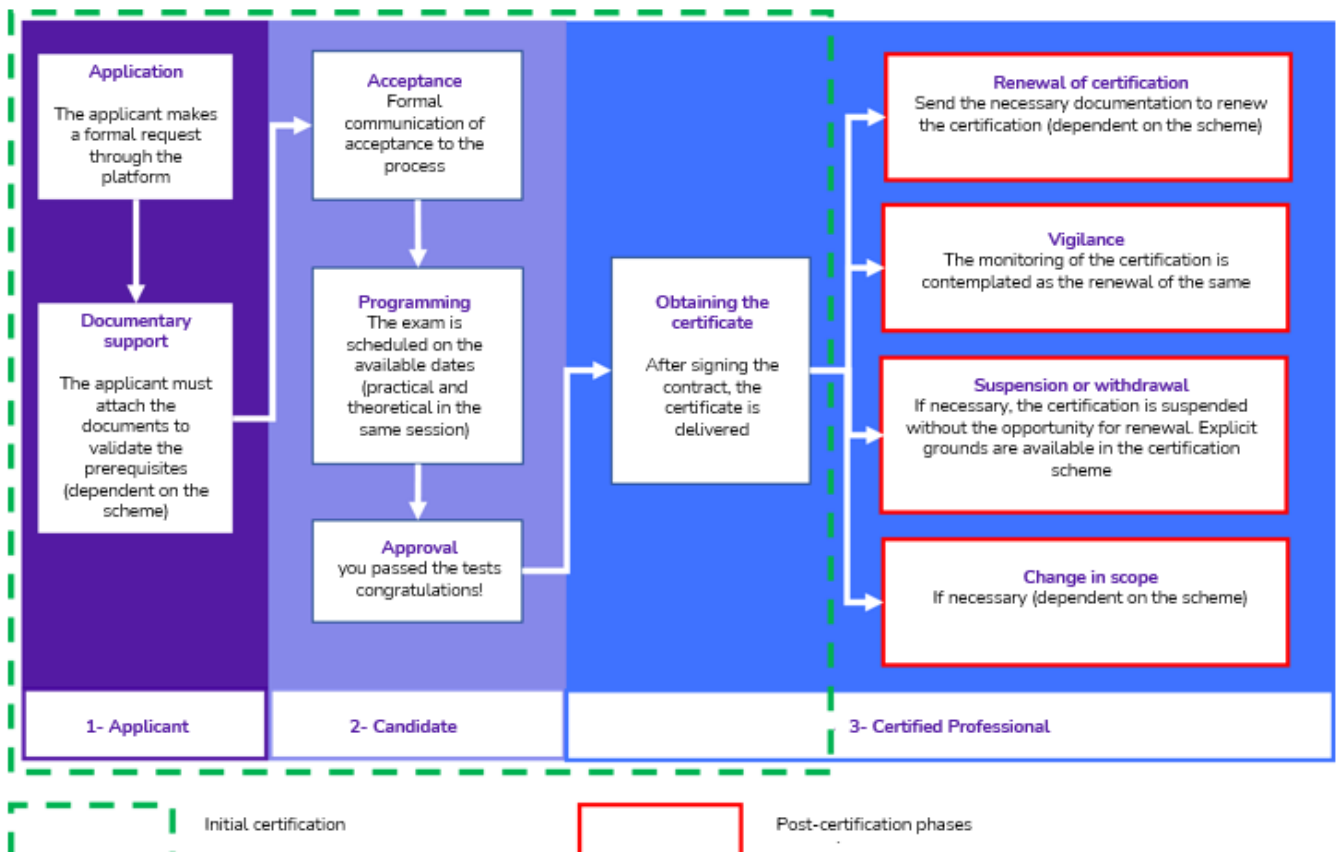
skills	Questions (1)	Study case(2)
Configure advanced system prompts, implement function calling, generate structured outputs, orchestrate chaining, and manage large API contexts.	X	X
Build agents using ReAct, Plan-and-Execute, and reflection patterns; design multi-agent systems with memory; and create enterprise agentic workflows.	X	X
Protect against prompt injection and jailbreaking, evaluate using objective metrics (LLM-as-judge, A/B, regression), and optimize costs in vertical production environments.	X	X

Who should take this exam?

This Prompt Engineering certification is designed for professionals who want to master generative AI in real-world environments. It especially benefits: software engineers, developers, and AI Engineers who integrate LLMs with APIs, function calling, and autonomous agents. Product managers, digital product managers, and digital transformation consultants who design AI solutions for business. Marketing specialists, copywriters, creatives, and content strategists who produce professional communication, research, and creativity at scale. In short, it is ideal for anyone who wants to move from being a casual ChatGPT/Claude/Gemini/etc. user to designing reliable, scalable AI solutions within their organization, with a direct impact on productivity, ROI, and competitive advantage.

Certification process

The following chart shows the general life cycle for obtaining a certification:



Certification process

Each of the phases for obtaining certification for the first time is described below; the phases after obtaining the certificate (red-bordered boxes) will be explained later.

- 1. Request for certification:** the applicant submits his or her certification application, on the QuizLab platform or through the partner company (where the applicant has taken his or her training). Once the application is approved, the applicant's profile is created in CertMind.
- 2. Documentary support:** the applicant must attach in the CertMind platform his or her identity document and additionally complete the registration of his or her resume (CV).
- 3. Verification and acceptance:** the platform verifies the applicant's compliance with the prerequisites, once verified, the application is accepted and the applicant becomes a candidate for the certification process.
- 4. Programming:** the call for the presentation of the exam is made, directly on the platform or through its representative. The format of the exam is explained below:

- **Type:** 40-question, multiple-choice, single-answer online test.
- **Duration:** 60 minutes.
- **Minimum passing grade :** 28/40 or 70%.
- **Additional time:** If the professional does not take the exam in his/her native language, he/she will have an additional 15 minutes and is also allowed to use a dictionary.
- **Supervision:** CertMind monitors the tests to ensure that they are performed correctly and transparently through the Invigilator Program (also known as "Proctor"). To learn more about this surveillance mechanism, please visit the following website www.certmind.org.
- **Open book:** No.
- **Modality:** Available online only on the CertMind platform.
- **Validity :** 5 Years.
- **Others:** All applicants are required to read and accept the company's code of ethics and terms and conditions.

Levels of Difficulty: Bloom's Taxonomy

Bloom's Taxonomy is a theory known in the educational sector because many teachers consider it suitable for evaluating the cognitive level acquired in a subject. The objective of this theory is that after a learning process, the learner acquires new skills and knowledge. The following table presents a description of the categories of Bloom's taxonomy present in the certification exam, as well as the percentage of each type of question in the exam.

Module	Level 1	Level 2	Level 3
Description	Knowledge. It can comprise remembering a wide range of elements, from specific data to complete theory. But all that is needed is to bring to mind the appropriate information.	Compression. This can be demonstrated by passing, or translating, material from one form to another (words to numbers), interpreting the material (explaining or summarizing), and estimating future trends (predicting consequences or effects).	Application. Refers to the ability or capacity to use the material learned in concrete, new situations.
Percentage of questions present in the exam	20%	60%	20%

Note: For more information on the monitoring system visit our web site <https://certmind.org>.

5. Obtaining the certificate: once the exam is passed and the terms and conditions contract is accepted, the certification is delivered.

Renewal, surveillance and withdrawal of certification

This phase occurs after the professional has obtained his or her certification. Renewal refers to the reissuance of the certification once its validity has come to an end. Surveillance refers to CertMind's supervision of the professional's performance during the period between certification and recertification to ensure compliance with the stipulations of this certification scheme. The activities that the certified professional must perform in order to obtain recertification are described below:

- 1. Application for recertification:** before the certification becomes invalid, the certified professional submits his or her recertification application on the QuizLab platform. In case the certification loses its validity, the professional must go through the certification process again.
- 2. Registration of PUC's:** the certified professional is required to register 20 PUC's every 3 years for certification renewal.

For more information about the Professional Update Credits (PUC) system visit our website <https://certmind.org>. The certified professional must attach the supports that accredit the PUC's in the CertMind platform.

- 3. Validation of documentation:** the platform verifies compliance with the PUC's of the certified professional, once verified, the recertification application is accepted.
- 4. Obtaining recertification:** Once the documents have been validated, the new certification is delivered.

Criteria for suspension or withdrawal of certification

Certification will be withdrawn from the professional in the following cases:

1. Failure to comply with the code of ethics.
2. Failure to comply with the requirements of the scheme.
3. Unsatisfactory results of the surveillance process.

Changes to the certification scheme

CertMind continuously reviews its Artificial Intelligence certification schemes to incorporate technological advances in generative AI (new LLM models, agentic tools, and multimodality), relevant regulatory updates, and participant feedback (assessment results, performance metrics, and complaints). Changes are announced at least 2 months in advance via the website and email to certified professionals, and are documented with version, date, and impact. When a change requires additional verification (e.g., new security or agent-related content), public transition mechanisms are specified, such as targeted recertification or supplementary modules, ensuring fair compliance and continued validity without unduly affecting those already certified.



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