

# Go from reading about AI to being certified in it.

**28 PAGES**

The full syllabus, the exam blueprint and the complete Learn-by-Doing list — the field guide that takes you from a working understanding of AI to the Certified AI Frameworks Professional credential.

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Issued by the Global Skill Development Council — companion to the Certified AI Frameworks Professional (CAIF) program.

## ORIENTATION

# How to use this guide

This is a study companion, not a brochure. It walks the same path as the certification: understand the landscape, learn the frameworks, see how they are examined, then practise. Keep it beside you as you prepare.

## What is inside

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## How to read each framework entry

**WHAT** A plain-language definition.

**WHY** The problem it solves for an organisation.

**PARTS** Its main components or stages.

**WATCH** Where teams most often get it wrong.

## SECTION A

# Types-of-AI Field Guide

Before frameworks come categories. Knowing how AI is classified — by capability, by technique, and by autonomy — is the vocabulary the rest of the certification builds on.

### By capability

1

Narrow AI (one task), General AI (human-level breadth), Super AI (beyond human) — today everything in production is Narrow.

### By function

2

Reactive machines, limited-memory systems, theory-of-mind, and self-aware AI — a ladder of increasing context.

### By technique

3

Machine learning, deep learning, NLP, computer vision, and generative AI — the methods under the hood.

### By autonomy

4

Assisted, augmented, and autonomous systems — how much a human stays in the loop.

**Why it matters.** Most governance and risk decisions hinge on which category a system falls into. Misclassifying a system is the first step toward mis-governing it.

## TYPES OF AI

### AI by Capability

**NARROW** Performs a single, well-defined task — recommendation, translation, detection. Every system in real use today is narrow.

**GENERAL** Hypothetical AI matching human flexibility across any task. An active research goal, not a product.

**SUPER** A speculative stage where AI exceeds human ability across the board — central to long-term safety debates.

#### THE CAPABILITY LADDER

NARROW	-> one task, superhuman in a slice	[TODAY]
GENERAL	-> any task, human-level breadth	[RESEARCH]
SUPER	-> beyond human across all domains	[THEORETICAL]

**Anchor your language.** When a vendor says "AI", they almost always mean narrow AI. Precise category language keeps strategy conversations honest.

#### RELATED CERTIFICATION

### This field guide is Module 1 of the AI Frameworks Certification

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## TYPES OF AI

# AI by Function

**REACTIVE** No memory; responds to the current input only. Classic game-playing engines are the textbook case.

**LIMITED** Limited-memory systems learn from recent data — the category nearly all modern ML belongs to.

**THEORY** Theory-of-mind AI would model others' beliefs and intentions. Emerging, not solved.

**SELF** Self-aware AI with its own consciousness — purely theoretical.

### FUNCTION TIERS

Reactive	-> stateless responses	
Limited-memory	-> learns from recent history	[MOST ML]
Theory-of-mind	-> models other agents	
Self-aware	-> hypothetical	

**Place your systems.** Almost everything you will govern is limited-memory AI. Naming the tier clarifies what it can and cannot do.

## TYPES OF AI

### AI by Technique

- ML** Machine learning: systems that improve from data rather than explicit rules.
- DL** Deep learning: layered neural networks behind modern vision and language.
- NLP** Natural-language processing: understanding and generating human language.
- CV** Computer vision: interpreting images and video.
- GEN** Generative AI: producing new text, images, audio or code.

#### HOW THE TECHNIQUES NEST

```
Machine Learning
+- Deep Learning
    +- NLP / Computer Vision
        +- Generative AI (LLMs, diffusion)
```

**They are layers, not rivals.** Generative AI sits on deep learning, which sits on machine learning. Knowing the stack tells you where risk enters.

## TYPES OF AI

# AI by Autonomy

**ASSISTED** The system informs; the human decides and acts. Lowest risk, highest oversight.

**AUGMENTED** Human and system decide together; the human can override.

**AUTONOMOUS** The system decides and acts within set bounds; humans monitor by exception.

### THE HUMAN-IN-THE-LOOP DIAL

ASSISTED	[human acts]	oversight: HIGH
AUGMENTED	[human + system]	oversight: MEDIUM
AUTONOMOUS	[system acts]	oversight: BY EXCEPTION

**Autonomy sets the controls.** The more autonomy you grant, the more your governance must shift from approving actions to auditing them.

## TYPES OF AI

# Spotlight: Generative AI

### WHAT

Models that generate new content — text, image, audio, code — from patterns learned in training data.

### WHY

It collapses the cost of drafting, summarising and prototyping, which is why it dominates enterprise AI roadmaps.

### PARTS

Foundation model, prompt interface, retrieval/grounding layer, and a guardrail/eval wrapper.

### WATCH

Hallucination, data leakage, and IP exposure — the three risks every governance review must cover.

### GEN-AI SYSTEM SHAPE

```
Input -> [grounding/retrieval] -> Foundation model  
      -> [guardrails + evals] -> Output -> Human review
```

**New power, familiar discipline.** Generative AI is novel; the governance it needs — data control, testing, oversight — is not.

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## TEAR-OUT

# Types of AI — Reference Card

The one-glance map. Classify any system across all four axes before you govern it.

Axis	Categories	Where today's systems sit
Capability	Narrow / General / Super	Narrow
Function	Reactive / Limited / Theory / Self	Limited-memory
Technique	ML / DL / NLP / CV / GenAI	All, layered
Autonomy	Assisted / Augmented / Autonomous	Assisted → Augmented

## Use it as a one-line profile

### EXAMPLE CLASSIFICATION

A fraud-detection model:  
Capability: Narrow | Function: Limited-memory  
Technique: ML/DL | Autonomy: Augmented

## SECTION B

# The Core AI Frameworks

The certification is built on six frameworks that an enterprise needs to adopt AI responsibly — from strategy down to day-to-day risk control. They interlock: strategy sets direction, governance sets rules, the lifecycle does the work.

### AI Strategy

1

Aligning AI initiatives to business value and readiness.

### AI Governance

2

The policies, roles and controls that keep AI accountable.

### AI Risk Management

3

Identifying, assessing and mitigating AI-specific risk.

### Responsible AI

4

Fairness, transparency, privacy and human oversight in practice.

### AI Lifecycle (MLOps)

5

From data and modelling to deployment and monitoring.

### Enterprise AI Operating Model

6

Structuring people, process and platform to scale AI.

**They form a system.** Strategy without governance is reckless; governance without a lifecycle is theatre. The certification teaches them together.

## CORE FRAMEWORKS

# Framework 1 — AI Strategy

### WHAT

A structured way to choose where AI creates value and whether the organisation is ready to deliver it.

### WHY

Without it, AI spend scatters across pilots that never reach production.

### PARTS

Value mapping, use-case prioritisation, data & talent readiness, build-vs-buy, and a roadmap.

### WATCH

Starting from the technology instead of the business problem.

### PRIORITISATION GRID

	LOW effort	HIGH effort
HIGH value	QUICK WINS	BIG BETS
LOW value	FILL-INS	AVOID

**Value first.** Score every candidate use case on value and feasibility before a single model is trained.

## CORE FRAMEWORKS

# Framework 2 — AI Governance

### WHAT

The system of policies, roles, and decision rights that keeps AI lawful, ethical and accountable.

### WHY

Regulators, customers and boards now expect demonstrable control over how AI is built and used.

### PARTS

Principles, policies, an oversight body, model inventory, and audit trails.

### WATCH

Policies on paper with no owner, no inventory, and no enforcement.

### GOVERNANCE STACK

PRINCIPLES -> what we believe  
POLICIES -> the rules that follow  
CONTROLS -> how rules are enforced  
OVERSIGHT -> who is accountable + audit

**Map to the regulation.** Align your governance to recognised references such as the NIST AI RMF and ISO/IEC 42001 so audits have something to anchor on.

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Move from reading frameworks to applying them on graded, real-world scenarios.

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## CORE FRAMEWORKS

# Framework 3 — AI Risk Management

### WHAT

A repeatable cycle for finding, rating and reducing the risks an AI system introduces.

### WHY

AI fails in ways traditional software does not — bias, drift, opacity, and novel attack surfaces.

### PARTS

Identify → assess → mitigate → monitor, mirroring the NIST AI RMF functions.

### WATCH

Treating risk as a one-time sign-off instead of a continuous loop.

### NIST AI RMF, IN BRIEF

GOVERN -> culture and accountability (wraps all)

MAP -> identify context and risk

MEASURE -> analyse and track

MANAGE -> prioritise and act

**Risk is continuous.** Models drift after deployment. Risk management that stops at launch is the most common and costly mistake.

## CORE FRAMEWORKS

# Framework 4 — Responsible AI

### WHAT

Putting ethical principles — fairness, transparency, privacy, accountability — into operational practice.

### WHY

Trust is the licence to operate; one visible failure can end a program.

### PARTS

Fairness testing, explainability, privacy-by-design, human oversight, and documentation.

### WATCH

Principles that never translate into a test, a metric, or a gate in the pipeline.

### PRINCIPLES -> PRACTICE

Fairness	-> bias tests across groups
Transparency	-> model cards + explanations
Privacy	-> minimisation + consent
Accountability	-> named owner + human override

**Make it testable.** A responsible-AI principle you cannot measure is a slogan. Each one should map to a check in the lifecycle.

## CORE FRAMEWORKS

# Framework 5 — AI Lifecycle & MLOps

### WHAT

The end-to-end path a model travels: data, build, validate, deploy, monitor, retire.

### WHY

Most AI value is lost between a working prototype and a reliable production system.

### PARTS

Data pipeline, training, evaluation, deployment, monitoring, and retraining.

### WATCH

No monitoring. A model unwatched in production silently decays.

### THE LIFECYCLE LOOP

```
DATA -> TRAIN -> EVALUATE -> DEPLOY -> MONITOR
  ^                               |
  +----- RETRAIN <-----+
```

**Close the loop.** Monitoring feeds retraining. A lifecycle that is a straight line, not a loop, will degrade.

## CORE FRAMEWORKS

# Framework 6 — Enterprise AI Operating Model

### WHAT

How an organisation structures people, process and platform so AI scales beyond isolated pilots.

### WHY

Scaling AI is an operating-model problem long before it is a technology problem.

### PARTS

Operating pattern (centralised, federated, or hub-and-spoke), a centre of excellence, and shared platforms.

### WATCH

Every team rebuilding the same tooling because there is no shared platform.

### THREE OPERATING PATTERNS

CENTRALISED	one team builds for all	[control]
FEDERATED	each unit builds its own	[speed]
HUB & SPOKE	shared core + local teams	[balance]

**Hub-and-spoke wins at scale.** A central platform and standards with embedded local teams is the pattern most mature enterprises converge on.

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## SECTION C

# Framework Infographics

The frameworks at a glance — how they connect, and the questions each one answers. These are the mental models to keep on a wall.

## How the six frameworks fit together

### THE STACK, TOP TO BOTTOM

STRATEGY -> where and why we use AI  
GOVERNANCE -> the rules and accountability  
RISK MGMT -> what could go wrong, and controls  
RESPONSIBLE -> fairness, transparency, oversight  
LIFECYCLE -> how a model is actually built/run  
OPERATING MODEL -> how it all scales across the org

**Read it vertically.** Strategy sets direction at the top; the operating model carries the weight at the bottom. Governance, risk and responsibility are the load-bearing middle.

## AT A GLANCE

# Infographic — Govern & Manage Risk

### **Govern**

Set culture, accountability and decision rights across the AI program.

### **Map**

Establish context: purpose, stakeholders, and where risk can arise.

### **Measure**

Analyse and track risk with metrics, tests and monitoring.

### **Manage**

Prioritise risks and act — mitigate, transfer, or accept with sign-off.

### **Model inventory**

A live register of every model, its owner, and its risk tier.

### **Audit trail**

Evidence of decisions and tests, ready for internal or external review.

## AT A GLANCE

# Infographic — Responsible AI in Practice

### **Fairness**

Test outcomes across groups; correct disparate impact before launch.

### **Transparency**

Publish model cards and provide explanations for decisions.

### **Privacy**

Minimise data, secure it, and honour consent and retention rules.

### **Accountability**

Name a human owner with authority to override the system.

### **Human oversight**

Keep a person in or on the loop, sized to the autonomy level.

### **Documentation**

Record data sources, limits, and intended use for every model.

## AT A GLANCE

# Infographic — The AI Lifecycle

### Data

Collect, clean, label and version the data that feeds the model.

### Train

Select an approach and fit the model to the prepared data.

### Evaluate

Test accuracy, fairness, robustness and fitness for purpose.

### Deploy

Release behind controls, with rollback and access management.

### Monitor

Watch for drift, performance decay and emerging harms.

### Retrain

Feed monitoring back into the next version — close the loop.

#### RELATED CERTIFICATION

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### Practice every framework in the CAIF Learn-by-Doing labs

Each framework in this guide maps to a hands-on, assessed exercise in the program.

[Start the Labs >](#)

## SECTION D

# The Official Syllabus

What the Certified AI Frameworks Professional program covers, module by module. This is the spine of both the course and the exam.

Module	Focus
<b>M1 · AI Foundations</b>	Types of AI, key techniques, and the vocabulary of the field.
<b>M2 · AI Strategy</b>	Value mapping, use-case prioritisation, readiness and roadmaps.
<b>M3 · AI Governance</b>	Principles, policies, oversight bodies, and model inventories.
<b>M4 · Risk Management</b>	The identify-assess-mitigate-monitor cycle and the NIST AI RMF.

**Maps to your work.** Each module is written to be applied to a system you already own — not learned in the abstract.

## SECTION D

# The Official Syllabus — cont.

Module	Focus
M5 · Responsible AI	Fairness, transparency, privacy, accountability and human oversight.
M6 · AI Lifecycle & MLOps	Data, training, evaluation, deployment, monitoring and retraining.
M7 · Enterprise Operating Model	Operating patterns, centres of excellence and shared platforms.
M8 · Regulation & Standards	NIST AI RMF, ISO/IEC 42001, the EU AI Act and sector rules.

## Standards you will be able to reference

**NIST** AI Risk Management Framework

**ISO** ISO/IEC 42001 AI management systems

**EU** EU AI Act risk tiers

**OECD** AI principles

## SECTION D

## Syllabus — Skills & Outcomes

What each module proves you can do — phrased for your résumé and your next project brief.

Module	You can demonstrate...
M1–M2	Classifying AI systems and building a value-ranked AI roadmap.
M3–M4	Standing up a governance structure and a working risk-management cycle.
M5	Turning responsible-AI principles into pipeline checks and metrics.
M6	Designing a monitored, retrainable AI lifecycle.
M7	Selecting an operating model that scales AI across the organisation.
M8	Mapping a deployment to NIST, ISO and EU AI Act requirements.

**Portfolio-ready.** Every row is a deliverable you can build during the program and defend in an interview.

## SECTION E

# The Exam Blueprint

How the certification exam is weighted, so you can study to the test rather than guess at it.

Domain	Weight	What it tests
Foundations	15%	Types, techniques, terminology
Strategy	15%	Prioritisation, readiness, roadmaps
Governance	20%	Policies, oversight, inventories
Risk & Responsible AI	25%	RMF cycle, fairness, oversight
Lifecycle & Operating	15%	MLOps, scaling patterns
Regulation	10%	NIST, ISO 42001, EU AI Act

**Where to spend your time.** Risk, responsible AI and governance together are nearly two-thirds of the exam. Weight your study accordingly.

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### Enterprise-ready AI is a certified skill

Validate your strategy, governance and deployment skills with an industry credential.

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## SECTION E

# Exam Format & Preparation

## Format at a glance

Item	Detail
Style	Multiple-choice and scenario questions
Basis	The eight syllabus modules, by blueprint weight
Mode	Online, remotely accessible
Result	Digital certificate and shareable badge on passing

## A four-step study plan

- ✓ Read the Types-of-AI guide until classification is automatic.
- ✓ Work each framework against a real system you know.
- ✓ Drill the high-weight domains: governance, risk, responsible AI.
- ✓ Complete the Learn-by-Doing list, then sit a practice run.

**Study to the blueprint.** Let the weightings, not your comfort zone, decide where your revision hours go.

## SECTION F

# The Learn-by-Doing List

The certification is applied. These are the deliverables you build — each maps to a framework in this guide.

### 1. AI use-case portfolio

Rank candidate use cases on value and feasibility.

### 2. AI strategy roadmap

A phased plan tied to readiness and business value.

### 3. Governance charter

Principles, policies, roles and an oversight body.

### 4. Model inventory + risk register

A live record of models, owners and risk tiers.

### 5. Risk assessment

Run one system through map-measure-manage.

### 6. Responsible-AI checklist

Fairness, privacy and oversight, as pipeline gates.

### 7. Lifecycle + monitoring plan

Define drift metrics and a retraining trigger.

### 8. Operating-model design

Choose and justify a pattern to scale AI.

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## SECTION F

# Learn-by-Doing — How It Works

Each deliverable follows the same rhythm, so practice compounds across the program.

### **Brief**

A real-world scenario sets the goal and the constraints.

### **Build**

You produce the artefact using the framework from the guide.

### **Review**

It is assessed against a rubric mapped to the syllabus.

### **Refine**

Feedback drives one improvement pass before sign-off.

### **Reuse**

The artefact becomes part of your professional portfolio.

### **Relate**

Each artefact links to the next, building one coherent program.

**Evidence, not just answers.** You leave with eight artefacts you can show an employer — proof you can run AI frameworks, not just define them.

## FROM READER TO CERTIFIED

# Your path to certification

Four AI frameworks. Eight modules. One credential.

**Know the types**      Capability · function · technique · autonomy

**Learn the frameworks**      Strategy · governance · risk · responsible · lifecycle · operating model

**Study the syllabus**      Eight modules, mapped to the exam blueprint

**Know the exam**      Weighted by domain — study where it counts

**Learn by doing**      Eight portfolio-ready deliverables

**Get certified**      Digital certificate + shareable badge

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