AI Capability Framework — Quick Reference Guide for Course Designers

How to Design Practical, Responsible, and Innovative AI Courses in Any Domain

CloudPedagogy (2026 Edition)

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1. THE SIX DOMAINS (ESSENTIAL SUMMARY FOR DESIGN)

Domain	Capability	When It Matters in Course Design
1. Awareness & Orientation	Understanding AI behaviour, accuracy limits, misinformation	Every course needs a foundational "understanding AI" module
2. Human–AI Co-Agency	Structuring human–AI responsibilities	When designing workflows, prompting, or drafting tasks
3. Generative Practice & Innovation	Prototyping, creating, iterating	When learners must create content, explore ideas, or simulate scenarios
4. Ethics, Equity & Impact	Avoiding harm, ensuring fairness, critical evaluation	Any context with public communication, sensitive topics, or vulnerable groups
5. Decision-Making & Governance	Oversight, documentation, safe boundaries	When AI decisions affect real people, data, or public outputs
6. Reflection, Learning & Renewal	Reviewing decisions, improving over time	Every course's final module or reflective practice element

Design rule:

Every course must have **six modules**, each aligned to one domain.

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2. THE UNIVERSAL 7-STEP COURSE DESIGN METHOD

Use this method every time you design a new CloudPedagogy course.

STEP 1 — Define Purpose & Learner Needs

- Who is the course for?

- What real-world challenges do they face?

- What capability growth is needed?

STEP 2 — Identify 3–6 Real Use Cases

Focus only on *practical tasks*.
 Example: "Draft a climate explainer" or "Review public health messaging."

STEP 3 — Map Use Cases to the Six Domains

Each use case must clearly map to:

- A **primary domain**

- One or more **secondary domains**

STEP 4 — Convert Domains into Practical Modules

Avoid naming modules after domains.
 Instead use practical titles:

- "Co-Writing Climate Communications with AI"

- "Ethical AI for Public Health Messaging"

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STEP 5 — Use the 3+1+1 Lesson Structure

Each module contains:

- **3 applied lessons**

- **1 hands-on activity**

- **1 downloadable template/tool**

STEP 6 — Build Cross-Domain Links

Ensure the course has:

- Awareness → Co-Agency

- Co-Agency → Innovation

- Innovation → Ethics

- Ethics → Governance

- Governance → Reflection

STEP 7 — Validate with the Six-Domain Checklist

The course is complete only when all domains have been addressed fully and responsibly.

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3. THE SIGNATURE COURSE STRUCTURE TEMPLATE

Use this in all CloudPedagogy courses.

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MODULE 1 — Awareness (Domain 1)
    Lesson 1
    Lesson 2
    Lesson 3
    Activity
    Download

MODULE 2 — Co-Agency (Domain 2)
MODULE 3 — Generative Practice (Domain 3)
MODULE 4 — Ethics & Equity (Domain 4)
MODULE 5 — Governance (Domain 5)
MODULE 6 — Reflection (Domain 6)
```

Total course time (free course): 2–3 hours
 Total course time (paid version): 5–7 hours or 30–40k words

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4. LESSON DESIGN QUICK TEMPLATE

Lesson Title: Practical, action-focused
Module / Domain:
Outcome: What capability does the learner gain?
Real-World Task: What it prepares them to do
Structure:

1. *Concept* — short, clear explanation

2. *Demonstration* — model output, example workflow

3. *Application* — guided practice

4. *Reflection* — quick self-check

Ethical/EQUITY Note:
List one risk or bias to check for.

Outputs:
What the learner will produce during the lesson.

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5. ACTIVITY DESIGN QUICK TEMPLATE

Every module has **one activity**.
 Activities must be:

- hands-on

- practical

- output-focused

- aligned to the domain

Activity Format:

1. Task description

2. Instructions (step-by-step)

3. AI + Human roles (co-agency)

4. Risks and checks

5. Output to submit or save

Examples:

- Evaluate an AI-generated climate advisory

- Co-write a sustainability message

- Prototype a health explainer

- Audit a humanitarian scenario

- Create a governance flow

- Run a retrospective

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6. DOWNLOADABLE TOOL QUICK BUILDER

Every module must include one downloadable resource:

- Glossary

- Prompt pack

- Co-agency matrix

- Ethical checklist

- Governance log

- Reflection worksheet

The download should:

- be actionable

- be reusable

- support real work beyond the course

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7. ETHICAL & EQUITY QUICK CHECK (DOMAIN 4)

Before finalising content:

☐ Have we checked for misinformation or hallucinations?
☐ Are vulnerable groups represented fairly?
☐ Are cultural assumptions avoided?
☐ Is the messaging responsible and non-harmful?
☐ Is human authorship clear?
☐ Have we included transparency guidance?

If any box is unticked, revise before publishing.

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8. GOVERNANCE QUICK CHECK (DOMAIN 5)

☐ Are decision boundaries defined?
☐ Does the activity or lesson require human review?
☐ Is the risk category clear?
☐ Is there an escalation path?
☐ Is the workflow documented?

If outputs affect real people, governance must be explicit.

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9. REFLECTION QUICK CHECK (DOMAIN 6)

Each module must support:

- self-reflection

- improvement cycles

- prompting refinement

- workflow revision

Each course must include:

- at least one retrospective

- one reflection worksheet

- instructions for updating practice

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10. END-TO-END VISUAL WORKFLOW

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AI CAPABILITY FRAMEWORK (Six Domains)
                ↓
APPLICATION METHOD (Seven Steps)
                ↓
MODULE DESIGN (Six Practical Modules)
                ↓
LESSONS + ACTIVITIES + DOWNLOADS
                ↓
FINISHED COURSE
                ↓
GOVERNANCE + REFLECTION + ITERATION
```

This is the design spine behind every CloudPedagogy course.

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11. WHEN DESIGNING, ALWAYS CHECK:

✔ Is the course practical?

Does it solve real tasks?

✔ Is it innovative?

Does it include prototyping, ideation, multimodal creation?

✔ Is it responsible?

Does it include ethics, equity, governance, and reflection?

✔ Is it engaging?

Are lessons interactive, scenario-based, and hands-on?

If all four are yes → the course is aligned with CloudPedagogy standards.