

RUDI

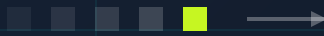
AI LITERACY FRAMEWORK MATRIX

COMPETENCY PROGRESSION MODEL

Mapping AI literacy across domains and proficiency levels
for comprehensive capability development



NO EXPOSURE



→

ADVANCED

RUDI AI Literacy Framework Matrix

Comprehensive competency progression across three domains

The Challenge

Many people claim they "use" or are "familiar" with AI, but without a common language to assess competency, organizations struggle to understand their true capabilities. This framework, developed by Responsible Use of Digital Intelligence (RUDI), provides a **standardized, measurable, and documentable** approach to AI literacy assessment and development.

1

Conceptual

Theory & understanding

2

Operational

Practical application

3

Governance

Ethics & oversight

Implementation Guide

Assessment

- Evaluate current competencies
- Map departmental capabilities
- Identify knowledge gaps

Development

- Design targeted training
- Track progression paths
- Measure improvements

Organizational Benefits

Micro Level

Individual skill development, role-specific training, personal growth tracking

Macro Level

Department readiness, organizational maturity, strategic workforce planning

The **Conceptual Domain** focuses on theoretical understanding and knowledge about AI systems. This domain measures your ability to comprehend what AI is, how it works at a fundamental level, and its implications for society and work.

Progress through this domain moves from basic awareness to deep understanding of AI architectures, capabilities, limitations, and ethical considerations. Both technical and non-technical users need conceptual grounding to make informed decisions about AI adoption and use.

Level	Non-Technical User Teachers, Admins, Writers, Managers	Technical User Developers, Data Scientists, Architects
No Exposure	Has never heard of generative AI.	Has no awareness of AI/ML technologies.
Pre-Beginner	Has heard the term "AI," maybe ChatGPT, but cannot explain it.	Knows AI exists but confuses it with automation; no exposure to models.
Beginner	Can describe AI as "a tool that generates text/images."	Knows AI involves training data and models; aware of major model providers.
Intermediate	Understands basics: training data, bias, why outputs vary.	Understands concepts like parameters, embeddings, fine-tuning; can explain architectures in plain language.
Advanced	Can critically discuss AI's role in society, ethics, and limitations.	Can explain trade-offs in model design, architectures, and evaluation metrics.

Key Competencies

- Understanding fundamental AI concepts and terminology
- Recognizing AI capabilities and limitations
- Critical thinking about AI's societal impact

The **Operational Domain** addresses practical, hands-on skills for working with AI tools and systems. This domain evaluates your ability to effectively use AI in real-world scenarios, from basic interactions to advanced implementations.

Competency progression ranges from first-time tool usage to designing complex AI-enhanced workflows. Non-technical users focus on prompt engineering and output validation, while technical users advance toward building custom solutions and optimizing performance.

Level	Non-Technical User	Technical User
No Exposure	Has never opened an AI tool.	Has never run an AI model, API, or notebook.
Pre-Beginner	Can open ChatGPT/DALL·E but doesn't know what to type.	Has installed Python/JS but hasn't touched AI libraries.
Beginner	Can try basic prompts ("Write an email..."), recognizes when output is off.	Can run a pre-built model or call a basic API.
Intermediate	Uses AI for work tasks: lesson plans, emails, reports; knows how to cross-check.	Builds small automations (APIs, n8n/Zapier), fine-tunes models with guidance.
Advanced	Designs AI-enhanced workflows, mentors peers in safe usage.	Builds custom pipelines, deploys apps, integrates multiple models, and optimizes performance.

Key Competencies

- Practical skills in using AI tools effectively
- Ability to integrate AI into workflows
- Quality control and output verification

The **Governance Domain** encompasses ethical considerations, risk management, and responsible AI practices. This domain assesses your understanding of AI's societal impact, privacy concerns, bias mitigation, and regulatory compliance.

Development in this domain progresses from basic risk awareness to leading organizational AI governance. All users must understand data privacy and bias issues, while advanced practitioners shape policies, implement safeguards, and ensure transparent, accountable AI deployment.

Level	Non-Technical User	Technical User
No Exposure	Has no awareness of AI risks.	Has no awareness of AI ethics or regulation.
Pre-Beginner	Knows AI may be biased, but no idea how.	Has heard of bias, fairness, or GDPR but never engaged.
Beginner	Can name risks: privacy, misinformation, bias.	Knows about data handling, PII, responsible disclosure.
Intermediate	Knows organizational policies, applies them (e.g., not inputting student data).	Implements policies: data filters, logging, audits.
Advanced	Leads conversations on AI policy, ethics, and adoption.	Designs governance frameworks, bias testing, compliance systems, transparency reports.

Key Competencies

- Understanding ethical implications and risks
- Implementing responsible AI practices
- Compliance and policy development

Framework Application

Putting the Matrix into Practice

30 Concrete Competency Points

Rubric – Assess AI literacy levels

Curriculum – Design training objectives

Progression – Track advancement

Implementation Steps

1. Assess current state
2. Identify targets
3. Design pathways
4. Implement training
5. Measure progress

Key Takeaways

- Multi-domain development required
- Role-specific competencies
- Measurable progression
- Governance equality