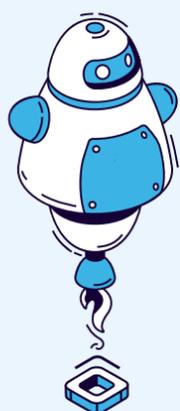


AI-integrated and AI-proof assessment



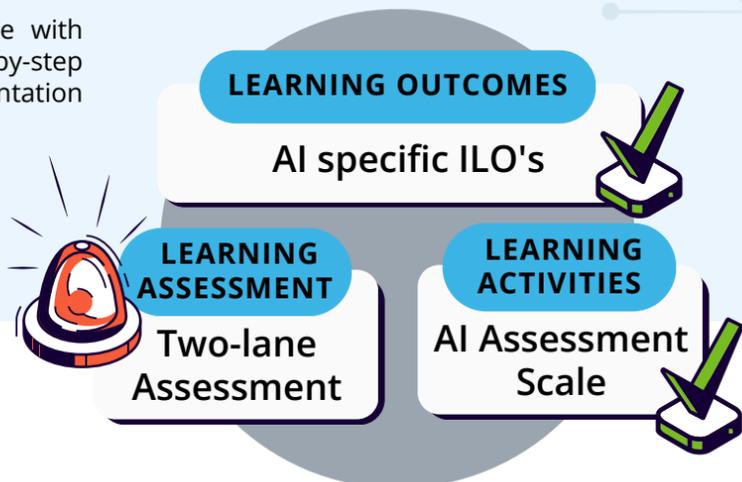
AI has transformed how students can complete assignments, making traditional assessment approaches insufficient for validating genuine competence. This framework addresses assessment validity in an AI-enabled world while preparing students to work effectively with AI in their professional practice.

This document provides programme directors and curriculum teams with a systematic approach to redesigning assessment programmes. It builds on existing BUAs curriculum practices while addressing the urgent need to ensure that degrees represent authentic student capability.

A comprehensive implementation guide with detailed examples, templates, and step-by-step guidance to support deeper implementation needs is available.

How can we confidently state that our graduates possess the competencies their degree promises?

Programme Level ILOs



IMPLEMENTATION ACTIONS

PROGRAMME LEVEL

Step 1 — Mapping

Action: Map where your ILOs are currently being assessed.

This means reviewing your existing curriculum blueprint/coverage matrix to identify which unit ILOs exist and where they are tested.

Output: Assessment landscape (testing framework) overview - you can see the whole picture.

Step 3 — Design

Action: Create your ideal assessment architecture. Design what *should* exist, not just what already does.

Where do Lane 1 and Lane 2 belong in your programme?

Output: Target state model - your vision of how assessment should work.

Step 2 — Lane determination

Action: For each indicator or phase, determine:

Is this Lane 1 (must be done without AI) or Lane 2 (can/should be done with AI)?

Output: Strategic lane allocation - you know which unit ILOs require independent demonstration.

Step 4 — Gap Analysis (if needed)

Action: Compare your current situation (as is) with your ideal situation (to be). Identify where gaps exist and what needs to change.

Output: Implementation priorities - you know what to tackle first.

UNIT LEVEL

Step 5 — Concrete design

Action: Lecturers work together within their 15 ECTS-credit unit to design the actual Lane 1 and Lane 2 assessments. This is where strategy becomes concrete reality.

Output: Assessment specifications - actual assessments designed per unit.

Step 6 — Transparency

Action: Document and communicate clearly: What AI use is permitted, prohibited, and required in each assessment? Make this transparent for both students *and* lecturers.

Output: Transparency framework - everyone knows the rules.

Step 7 — Team alignment

Action: Ensure all lecturers within a unit work together to maintain consistent lane choices and standards. This cannot be done by individual lecturers working alone.

Output: Shared standards - consistent approach across the unit.

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For any questions,
contact themeAI@buas.nl

AI ILOs & Two-lane approach explained

AI-specific Learning Outcomes



AI ILOs — Developing professional AI competence

Alongside domain-specific competencies, students must develop two essential AI capabilities that are integrated across the curriculum.

• ILO 1 Comprehensive Application of AI with Usability Assessment

BASIC LEVEL

Identify basic AI tools relevant to their domain, **demonstrating** and **understanding** their functions and potential applications in simple, well-defined tasks.

INTERMEDIATE LEVEL

Select appropriate AI tools to solve practical, well-defined problems within their domain, demonstrating a deeper understanding of the tools' capabilities and limitations, and **evaluating their suitability** for tasks in different contexts.

END LEVEL

Apply AI tools and techniques within their domain, **demonstrating** and understanding the current capabilities and limitations of these tools while **assessing** their usability and effectiveness in real-world scenarios.

• ILO 2 Ethical AI Utilisation

BASIC LEVEL

Describe responsible AI practices and **explain** ethical considerations when applying basic AI tools within their domain.

INTERMEDIATE LEVEL

Utilise AI solutions within their domain, **identifying** and **addressing** of ethical and societal considerations and **evaluating** the responsible use of AI in practical applications.

END LEVEL

Implement AI in a responsible and ethical manner by **critically evaluating** the societal, ethical, and legal implications of AI applications, and **making informed decisions** that ensure compliance with regulations, respect data privacy, and foster transparency and trust within their domain.

Two-lane approach

The 'Two-lane approach' is a programme-level assessment framework that balances two essential capabilities:

Lane 1 (secured/AI-controlled):

Validates that students can demonstrate competencies independently, without AI assistance. These assessments ensure degree validity by confirming authentic student capability.

Purpose: Can this student demonstrate this capability independently?

Lane 2 (open/AI-integrated):

Develops students' ability to work effectively with AI as they will in professional practice. These assessments teach responsible AI collaboration and evaluate decision-making on AI use.

Purpose: Can this student learn and work effectively in an AI-enabled professional environment?

Both lanes are essential across the curriculum. **Lane 1** ensures competence, **lane 2** ensures professional readiness. Programmes strategically balance these lanes, so each unit may not need both lanes.

Category	Lane 1	Lane 2
Role of assessment	Assessment of learning.	Assessment for and while learning.
Level of operation	Mainly at program level.	Mainly at unit level.
Assessment security	Secured, in person.	'Open' / unsecured.
Role of generative AI	May or may not be allowed by examiner.	As relevant, use of AI is scaffolded and supported.
TEQSA alignment	Principle 2 – forming trustworthy judgements of student learning.	Principle 1 – equipping students to participate ethically and actively in an AI-permeated society.
Examples	In-person interactive oral assessments; viva voce exams; contemporaneous in-class assessments and skill development; tests and exams.	AI to provoke reflection, suggest structure, brainstorm ideas, summarise literature, make content, suggest counterarguments, improve clarity, provide formative feedback, etc.

Lane 1 — Works well for the practical demonstration of skills or physical simulations of work environment practices.

Lane 2 — Works well with holistic assessment practices and inquiry-based, student-led learning such as PBL.

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