

## Designing an e-Portfolio Framework for Competency-Based Assessment in a Master's-Level Instructional Design Program

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### Introduction & Background

Graduate programs in instructional design (ID) face the challenge of aligning learning outcomes with professional competencies. Traditional written examinations often fail to capture authentic work products developed for industry-oriented careers.

**The Problem:** Need for alternative models to document student progress and showcase applied skills.

**Traditional Approaches:** Written comprehensive examinations often fail to capture applied skills and authentic work products essential for professional practice.

**Professional Realities:** Graduates entering industry-oriented careers need to demonstrate tangible instructional design capabilities and development.

E-portfolios provide a dynamic platform to demonstrate competency through actual design artifacts

#### Research Purpose

This study presents the design and pilot implementation of an e-portfolio-based assessment framework to:

1. Support competency-based program evaluation.
2. Help master's students document and showcase professional artifacts.
3. Demonstrate authentic instructional design capabilities to industry stakeholders.

### Theoretical Grounding

#### Global Standards

The framework is firmly grounded in the global competency standards developed by the **International Board of Standards for Training, Performance and Instruction (IBSTPI)**.

IBSTPI standards serve as the core foundation for:

- Mapping program learning outcomes.
- Organizing professional portfolio artifacts systematically.

### Mixed-Methods Methodology

A rigorous mixed-methods research design guides the development, validation, and evaluation processes:

Stakeholder	Data Collection Method
Students & Alumni	Survey & Open-ended responses
Faculty & Partners	In-depth Interview

**Current Students & Alumni:** Surveys and open-ended responses to identify perceived value and usability.

**Faculty Members & Industry Partners:** In-depth interviews to validate learning outcomes and establish portfolio assessment criteria.

### Needs Assessment Results

#### Portfolio Readiness

Confidence Level 2.8/5.0

**Student Voice:** "We need ongoing feedback, clear milestones, and exemplars of high-quality portfolios."  
**Action:** Structured scaffolding & milestones.

#### Technology & Tools

Preparedness 2.7/5.0

**Student Voice:** "Need broader exposure to industry-relevant tools."  
**Action:** Hands-on workshops & diverse tool practice.

#### Applied Skills Gap

Overall Avg. 2.6/5.0

**Student Voice:** "Lowest confidence in Assessment (2.3) and Research Application (2.5) within real contexts."  
**Action:** Real-world assignments & iterative cycles.

#### Career Readiness

Industry Exposure 2.6/5.0

**Student Voice:** "We need internships beyond Higher Education and more online flexibility."  
**Action:** Expand internship network & scheduling.

### Discussion & Interpretations

**Lack of Structured Scaffolding:** Students experience high anxiety and lower confidence due to a lack of systematic guidance across the curriculum.

**Limited Tool Diversity:** Restricts student competitiveness in transitioning to non-academic or corporate instructional design roles.

**Theory-Practice Gap:** Low self-efficacy in directly applying research and assessment models to practical instructional solutions.

### Proposed Framework Components

**Program-wide Portfolio System:** Implements a multi-stage tracking mechanism with clear, incremental milestones.

**Embedded Faculty Coordination:** Establishes formalized feedback loops between faculty advisors and students at critical checkpoints.

**Curated Showcase Exemplars:** Provides a repository of high-standard portfolio examples aligned with industry expectations.

### Expected Deliverables & Significance

**Key Outputs:** An IBSTPI-aligned e-portfolio assessment model, validated competency-based evaluation criteria (rubrics), and practical development guidelines.

**Significance:** The findings contribute to improving program-level assessment and strengthening the alignment between graduate education and industry expectations.