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Lead Author:

Keanon Parsons

Position:

Director, Haven Aid

Director, Haven's Systems Development (HSD)

Institution:

Haven Quest Research Institute (HQRI)

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The analysis, interpretation, contextual application, conceptual organisation, and original frameworks presented within this publication are intellectual contributions of the Haven Quest Research Institute (HQRI), Haven Aid, and Haven's Systems Development (HSD).

Where original conceptual models, frameworks, methodologies, or digital infrastructure concepts are introduced, these represent original contributions developed through the Haven ecosystem unless otherwise stated.

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Executive Summary

Simulation-based learning has become one of the most influential educational approaches across medicine, nursing, aviation, emergency management, psychology, law, military training, and other high-responsibility professions. By creating realistic environments in which learners can apply knowledge, make decisions, communicate with stakeholders, and reflect on outcomes, simulation provides opportunities for deliberate practice without exposing real clients or communities to unnecessary risk.

As social work and human services become increasingly complex, educational institutions face growing pressure to prepare graduates who can demonstrate professional judgement, ethical reasoning, documentation skills, multidisciplinary collaboration, and confidence before entering practice environments. Traditional classroom instruction remains essential but cannot always replicate the uncertainty and complexity of real-world professional situations.

This research paper investigates the current evidence supporting simulation-based learning across professional disciplines and examines its relevance for social work education. Through a synthesis of publicly available academic literature, educational frameworks, and professional practice research, the paper identifies common characteristics of successful simulation programmes and explores how digital simulation environments can complement existing teaching methods.

The paper proposes the Haven Quest Simulation Framework, a structured model designed to support experiential learning, reflective practice, ethical decision-making, professional communication, case documentation, and continuous improvement through interactive case-based scenarios. The framework is intended to complement, rather than replace, field education, supervision, and traditional teaching approaches.

Key findings from the literature consistently demonstrate that simulation-based learning contributes to improved learner engagement, increased confidence, enhanced decision-making ability, stronger communication skills, and greater preparedness for professional practice when appropriately designed and integrated into educational programmes.

This paper contributes to the ongoing discussion surrounding educational innovation by positioning simulation as a practical tool for strengthening professional readiness while supporting safe, repeatable, and measurable learning experiences.



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Abstract

Simulation-based learning has evolved from a specialist training methodology into a widely adopted educational strategy across multiple professional disciplines. Higher education institutions increasingly utilise simulated environments to bridge the gap between theoretical instruction and workplace practice, enabling learners to develop practical competencies within controlled and reflective settings.

This research reviews current evidence relating to simulation-based learning and examines its application within professional education, with particular attention to social work and human services. Drawing upon published research, systematic reviews, educational theory, and interdisciplinary practice, the paper explores the educational principles underpinning simulation, including experiential learning, active learning, reflective practice, and deliberate practice.

The investigation identifies recurring benefits including improved learner confidence, professional judgement, communication, teamwork, and decision-making while recognising implementation challenges such as resource requirements, facilitator training, and equitable access to technology.

Building upon these findings, the paper introduces the Haven Quest Simulation Framework, an educational model designed to integrate realistic case scenarios, structured reflection, digital documentation, and progressive competency development into a single learning environment.

The paper concludes that simulation-based education represents a valuable complement to existing professional education models and offers significant opportunities for strengthening graduate preparedness within social work and related human service professions.

Keywords

Simulation Learning; Simulation-Based Education; Social Work Education; Professional Readiness; Experiential Learning; Reflective Practice; Higher Education; Educational Technology; Digital Learning; Case-Based Learning; Immersive Learning; Professional Development; Human Services Education; Interactive Learning; Ethics Education; Practice Readiness; Competency Development; Scenario-Based Learning; AI-Assisted Learning; Workforce Preparation.



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Introduction

Professional education extends beyond the acquisition of theoretical knowledge. Graduates entering practice environments are expected to communicate effectively, exercise ethical judgement, document complex situations accurately, collaborate across multidisciplinary teams, and make informed decisions under conditions of uncertainty.

Many professions have responded to this challenge by incorporating simulation-based learning into curricula. Medical schools utilise patient simulators, aviation programmes employ flight simulators, emergency response organisations conduct scenario exercises, and legal education increasingly adopts simulated client interactions to strengthen practical competence.

Social work education shares many characteristics with these professions. Practitioners regularly engage with vulnerable individuals, families, communities, and multidisciplinary stakeholders while navigating legal frameworks, ethical responsibilities, organisational policies, and resource constraints. Consequently, there is increasing interest in educational approaches that allow students to develop professional judgement before encountering complex real-world situations.

Simulation-based learning provides one such approach. Rather than replacing traditional teaching or supervised field placements, simulation creates opportunities for repeated practice, structured feedback, reflection, and competency development within psychologically safe learning environments.

This research paper examines the evidence supporting simulation-based learning across professional disciplines and considers its implications for contemporary social work education. It further introduces the Haven Quest Simulation Framework as an example of how digital simulation environments may contribute to experiential and practice-oriented learning.





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Research Objectives

The objectives of this research are to:

1. Examine the current evidence supporting simulation-based learning across professional disciplines.
2. Identify educational theories that underpin effective simulation design.
3. Explore the relevance of simulation for social work and human services education.
4. Investigate how digital simulation environments can support professional readiness.
5. Present a structured educational framework that aligns simulation activities with competency development and reflective practice.

3. Research Questions

This investigation seeks to answer the following questions:

- What is simulation-based learning?
- What evidence exists regarding its effectiveness across professional education?
- Which educational theories support simulation-based approaches?
- What challenges exist in preparing social work graduates for contemporary practice?
- How can structured digital simulations contribute to professional readiness?
- How can simulation complement existing field education and classroom instruction?

Reference Base (APA 7th Edition)

Cook, D. A., et al. (2011). Technology-enhanced simulation for health professions education.

Kolb, D. A. (1984). *Experiential Learning: Experience as the Source of Learning and Development*.

Lateef, F. (2010). Simulation-based learning: Just like the real thing.

Motola, I., et al. (2013). Simulation in healthcare education.

Powers, K. (2020). Bringing simulation to social work education.





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Recent systematic reviews on simulation learning within social work and higher education published in peer-reviewed educational journals.

Research Methodology and Literature Review

4. Research Methodology

4.1 Research Design

This research adopts a qualitative desk-based research methodology that synthesises publicly available academic literature, educational frameworks, professional guidelines, and interdisciplinary evidence relating to simulation-based learning.

Rather than conducting primary empirical research, the study integrates findings from peer-reviewed publications, higher education research, simulation frameworks, and professional practice literature to identify recurring themes, best practices, opportunities, and implementation considerations.

This methodology was selected because simulation-based learning has been extensively studied across multiple professional disciplines, providing a substantial body of evidence that can inform the development of simulation environments for social work education.

4.2 Research Objectives

The investigation seeks to:

- Examine the evolution of simulation-based learning.
- Identify evidence supporting simulation within professional education.
- Explore educational theories underpinning simulation design.
- Analyse current challenges in social work education.
- Investigate how digital simulation environments can support professional readiness.
- Develop an evidence-informed conceptual framework for Haven Quest.

4.3 Research Sources

The research synthesises information from multiple categories of publicly available sources including:

Academic Literature



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- Peer-reviewed journal articles
- Systematic literature reviews
- Meta-analyses
- Educational research publications

Professional Organisations

- International social work organisations
- Higher education frameworks
- Professional competency standards
- Educational technology guidance

Higher Education Research

- University publications
- Simulation learning research
- Digital pedagogy studies
- Professional education frameworks

Educational Theory

- Experiential Learning Theory
- Reflective Practice Theory
- Constructivist Learning Theory
- Active Learning Principles
- Deliberate Practice Frameworks

4.4 Scope

The research focuses on simulation learning across professional disciplines including:

- Medicine
- Nursing
- Emergency response
- Aviation



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- Psychology
- Law
- Social work
- Human services

The objective is not to compare professions directly but to identify transferable educational principles that may strengthen social work education and professional development.

Literature Review

5.1 Understanding Simulation-Based Learning

Simulation-based learning is an educational approach that recreates realistic professional situations within controlled learning environments where participants can develop knowledge, skills, communication abilities, and professional judgement through active participation.

Unlike passive instructional methods, simulation requires learners to analyse information, make decisions, communicate with stakeholders, respond to changing circumstances, and reflect upon outcomes.

Simulation may involve:

- Standardised clients
- Role play
- Virtual environments
- Digital case scenarios
- Serious games
- Scenario-based discussions
- Team-based exercises

Although the technologies differ, the underlying educational philosophy remains consistent: learners develop competence through authentic experience combined with structured reflection and feedback.

5.2 Experiential Learning



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One of the most influential foundations of simulation-based education is experiential learning.

Experiential learning proposes that knowledge is created through the transformation of experience rather than passive information transfer. Learners actively engage with problems, reflect upon their actions, develop conceptual understanding, and apply new knowledge within future situations.

Simulation environments naturally support this cycle by providing opportunities for repeated practice while allowing learners to safely explore complex professional situations.

For social work education, experiential learning enables students to:

- Practise ethical reasoning
- Develop interviewing skills
- Improve case analysis
- Strengthen documentation
- Experience multidisciplinary collaboration
- Build professional confidence

5.3 Reflective Practice

Reflection is widely recognised as a fundamental component of professional education.

Simulation extends learning beyond the activity itself by encouraging learners to evaluate their decisions, identify strengths and limitations, consider alternative responses, and connect practical experience with theoretical understanding.

Structured reflection supports:

- Critical thinking
- Professional judgement
- Self-awareness
- Continuous improvement
- Ethical decision-making

Within social work education, reflective practice contributes to lifelong professional learning and adaptive expertise.



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Evidence Across Professional Disciplines

6.1 Medicine

Healthcare education has become one of the most extensively researched areas of simulation-based learning.

Medical simulation enables students and practitioners to practise clinical reasoning, communication, teamwork, and emergency response within controlled environments before interacting with patients.

Research consistently demonstrates improvements in learner confidence, procedural competence, communication, and knowledge retention when simulation is integrated with structured debriefing and feedback.

Simulation has consequently become an established component of medical education internationally.

6.2 Nursing

Nursing programmes increasingly utilise simulation laboratories and virtual patients to strengthen clinical reasoning and professional communication.

Simulation allows nursing students to experience high-risk or low-frequency situations that may not occur during limited clinical placements while encouraging collaboration, documentation accuracy, prioritisation, and patient-centred decision-making.

Research indicates that repeated simulation experiences contribute positively to learner engagement and confidence.

6.3 Emergency Response

Emergency management, disaster response, and crisis intervention frequently employ simulation exercises to prepare professionals for unpredictable and high-pressure situations.

Scenario-based exercises enable teams to coordinate resources, communicate effectively, evaluate risks, and improve organisational preparedness without exposing communities to unnecessary harm.



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The emphasis on teamwork, communication, situational awareness, and structured reflection provides valuable insights for other human service professions.

6.4 Law and Psychology

Simulation has expanded within legal education through simulated client interviews, negotiation exercises, advocacy training, and ethical decision-making activities.

Similarly, psychology education increasingly incorporates role-play and simulated consultations to strengthen communication, assessment, and intervention planning.

Both disciplines demonstrate the value of authentic practice experiences supported by structured feedback and reflection.

6.5 Implications for Social Work Education

Social work shares many characteristics with these professions:

- Complex decision-making
- Ethical responsibilities
- Client-centred communication
- Documentation requirements
- Crisis intervention
- Multidisciplinary collaboration
- Professional accountability

Consequently, simulation-based learning represents a logical extension of existing educational practice rather than a replacement for field education.

Digital simulation environments offer opportunities for repeated exposure to realistic scenarios that may not consistently occur during traditional placements while providing measurable and reflective learning experiences.

Interim Findings

The literature review identifies several recurring themes across professional disciplines:

- ✓ Active participation improves engagement.
- ✓ Reflection strengthens professional judgement.
- ✓ Safe environments encourage experimentation and learning.



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- ✓ Repeated practice supports confidence development.
- ✓ Structured feedback enhances competency acquisition.
- ✓ Simulation complements rather than replaces workplace experience.

These findings provide the educational foundation for the Haven Quest Simulation Framework introduced in the following sections of this research paper.

Working References (APA 7th Edition)

- Cook, D. A., et al. (2011). Technology-enhanced simulation for health professions education.
- Kolb, D. A. (1984). *Experiential Learning: Experience as the Source of Learning and Development*.
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- Schön, D. A. (1983). *The Reflective Practitioner: How Professionals Think in Action*.

APPENDIX A

ORIGINAL FRAMEWORK ATTRIBUTION

The frameworks, models, methodologies, and conceptual architectures contained within this publication represent original intellectual contributions developed through the Haven Quest Research Institute (HQRI), Haven Aid, and Haven's Systems Development (HSD).

These frameworks are informed by existing academic literature and professional practice knowledge but represent original conceptual integrations developed by the authors of this publication.

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Current Challenges in Social Work Education

7.1 The Theory-Practice Gap

Despite significant advancements in higher education, research consistently identifies a persistent gap between theoretical instruction and applied professional practice. Graduates often possess strong conceptual knowledge but demonstrate uncertainty when required to apply this knowledge in complex, real-world environments involving ethical ambiguity, time pressure, and multidisciplinary coordination.

Social work, in particular, requires practitioners to integrate legal frameworks, ethical reasoning, communication skills, and contextual judgement simultaneously. This level of complexity is difficult to replicate through traditional lecture-based or assessment-based learning alone.

7.2 Field Placement Limitations

Field education remains one of the most valuable components of social work education.

However, universities internationally continue to experience challenges including:

- Limited placement opportunities
- Inconsistent case exposure
- Variability in supervision quality
- Increasing student numbers
- Resource constraints
- Geographic limitations

Consequently, students may graduate having experienced significantly different learning opportunities despite completing the same qualification.

Simulation-based education provides a complementary mechanism through which learners can encounter standardised professional scenarios while maintaining consistency across cohorts.

7.3 The Digital Transformation of Human Services



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Human service organisations increasingly operate within digital ecosystems involving electronic case management systems, virtual communication, multidisciplinary collaboration platforms and AI-assisted administrative tools.

Graduates entering practice therefore require competencies extending beyond interpersonal communication to include:

- Digital documentation
- Information governance
- Ethical technology use
- Collaborative decision-making
- Professional digital communication
- Data-informed practice

Educational innovation must evolve alongside professional practice.

The Haven Quest Professional Simulation Framework™ (HQ-PSF)

8.1 Conceptual Foundation

The Haven Quest Professional Simulation Framework™ (HQ-PSF) is an educational model developed to structure simulation-based learning into a repeatable, competency-driven professional development cycle.

The framework is grounded in:

- Experiential Learning Theory (Kolb, 1984)
- Reflective Practice Theory (Schön, 1983)
- Competency-Based Education Models
- Active Learning Pedagogy
- Deliberate Practice Principles

Rather than functioning as a game-based system, HQ-PSF is designed as a **structured professional learning architecture** that prioritizes decision-making quality, ethical reasoning, and reflective improvement over speed or performance scoring.



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8.2 The Seven-Stage Learning Cycle

Stage 1 — Observe

Learners engage with structured case environments that present contextual information such as client histories, referral notes, environmental factors, and stakeholder inputs. The objective is to develop situational awareness before intervention.

Professional competencies:

- Active listening
- Information gathering
- Pattern recognition
- Contextual understanding

Stage 2 — Assess

Learners analyse information using professional frameworks and identify risks, strengths, priorities and protective factors.

Professional competencies:

- Critical thinking
- Risk assessment
- Case analysis
- Ethical consideration

Stage 3 — Decide

Multiple intervention pathways become available.

Learners evaluate possible responses while considering legislation, organisational policy, professional ethics and client wellbeing.

Professional competencies:

- Decision-making



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- Professional judgement
- Accountability
- Ethical reasoning

Stage 4 — Act

Learners implement decisions through realistic conversations, referrals, collaborative meetings or crisis interventions.

Professional competencies:

- Communication
- Collaboration
- Intervention planning
- Professional conduct

Stage 5 — Document

Every decision generates documentation responsibilities.

Learners complete digital case notes, referral forms, assessments and reports reflecting professional practice standards.

Professional competencies:

- Record keeping
- Information management
- Professional writing
- Accountability

Stage 6 — Reflect

Structured debriefing encourages learners to analyse their decisions, identify strengths, recognise bias and consider alternative approaches.

Professional competencies:



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- Reflective practice
- Self-awareness
- Critical evaluation
- Professional growth

Stage 7 — Improve

Insights gained through reflection inform future simulations, allowing learners to progressively strengthen competence through repeated practice.

Professional competencies:

- Continuous learning
- Adaptive expertise
- Confidence development
- Lifelong professional development

Professional Competency Matrix

The Haven Quest framework aligns simulation activities with observable professional competencies.

Simulation Activity	Competency Developed
Observation	Situational awareness
Assessment	Critical thinking
Decision-making	Professional judgement
Action	Communication & intervention



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Simulation Activity

Competency Developed

Documentation

Professional accountability

Reflection

Self-awareness

Iteration

Adaptive expertise

This competency-based approach enables institutions to map simulation experiences directly to graduate attributes and learning outcomes.

Implementation Model

The HQ-PSF model is applicable across multiple institutional contexts:

Universities

- Pre-placement preparation
- Skills development modules
- Assessment integration

Government & Public Sector

- Graduate readiness programmes
- Workforce onboarding
- Compliance training

NGOs & Community Organisations

- Staff training
- Scenario-based supervision support

Continuing Professional Development (CPD)



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- Refresher training
- Ethical decision practice
- Skills reinforcement

Research Applications

- Learning analytics
- Educational effectiveness studies
- Competency mapping

Future Research Agenda

Future investigations should examine:

- Longitudinal impact of simulation exposure on professional competence
- Correlation between simulation participation and field performance
- Digital simulation effectiveness in blended learning environments
- AI-supported reflective learning systems
- Cross-disciplinary simulation transferability
- Standardisation of professional readiness measurement tools
- Curriculum integration models for simulation-based education.

The Haven Quest Research Series will continue to explore these themes through interdisciplinary collaboration and evidence-informed educational innovation.

Conclusion

Simulation-based learning represents a significant evolution in professional education, offering structured opportunities for learners to engage in realistic, repeatable, and reflective practice environments.

The evidence across multiple disciplines indicates that simulation enhances communication skills, decision-making capacity, professional confidence, and reflective capability when integrated within structured educational frameworks.

The Haven Quest Professional Simulation Framework™ (HQ-PSF) provides a structured model for translating simulation theory into practical educational design, integrating



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observation, assessment, decision-making, action, documentation, reflection, and improvement into a continuous learning cycle.

As higher education continues to evolve toward experiential, digital, and competency-based learning models, simulation offers a scalable and evidence-informed approach to strengthening professional readiness across social work and human service disciplines.

