COMPETENCIES OF THE FUTURE AND STRATEGIC FRAMEWORKS: TRENDS AND DRIVERS

Authors:

Dr. Aleksandra Marcinkowska EDU SMART TRAINING CENTRE LIMITED | IRELAND

Dr. Aleksandra Ścibich – Kopiec EDU SMART TRAINING CENTRE LIMITED | IRELAND

Disclaimer:

Project Number: 2023-1-PL01-KA220-VET-000158937

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Introduction

The development of frameworks for 21st-century competencies reflects a growing recognition of the need to equip individuals with skills that align with the demands of rapidly changing global workplaces (Salas-Pilco, 2013). Accelerating technological innovation, shifting labor markets, and increasing global interconnectivity have fundamentally altered how work is performed and how organizations operate. As a result, contemporary competency frameworks emphasize an integrated combination of technical, cognitive, and social-emotional capabilities essential for navigating complex and uncertain environments.

Central to these frameworks are strategic foresight, effective change management, and proactive decision-making. These competencies enable individuals and organizations to anticipate emerging challenges, adapt to external disruptions, and capitalize on new opportunities (Gudanowska et al., 2020). Rather than responding reactively to change, future-oriented competency models promote anticipation, flexibility, and continuous learning as defining characteristics of professional effectiveness.

Strategic Leadership and Future-Oriented Competencies

Leadership in the 21st century extends beyond managing technological change. It requires geopolitical awareness, the ability to articulate long-term strategic visions, and the capacity to align organizational goals with evolving societal expectations (Horey et al., 2004). Leaders must balance innovation with stability while navigating dynamic stakeholder relationships across increasingly complex ecosystems.

Universities play a pivotal role in developing these leadership competencies by embedding agile leadership principles into educational programs. By fostering adaptability, systems thinking, and ethical decision-making, higher education institutions help prepare graduates to respond effectively to shifting industry demands and societal challenges (Mahlangu & Moloto, 2022).

This approach supports the development of leaders capable of operating within volatile, uncertain, complex, and ambiguous (VUCA) environments.

Management by Competencies as a Strategic Approach

The transition toward management by competencies has emerged as a strategic response to global competition and organizational transformation. This approach focuses on aligning organizational objectives with individual capabilities, emphasizing the strategic value of leveraging employee strengths to achieve collective goals. By integrating competency-based management into organizational strategy, businesses enhance adaptability, performance, and long-term sustainability.

This model has gained increasing relevance as organizations seek sustainable competitive advantage in fast-evolving markets. Competency-based management allows organizations to respond more effectively to external pressures while fostering internal alignment and engagement (Rosso & García-Salirrosas, 2023). In this context, competencies are no longer viewed solely as individual attributes but as strategic organizational assets.

Active Learning and Digital Competency Development

Active learning methodologies play a critical role in developing future-oriented competencies, particularly in relation to digital literacy and information and communication technology (ICT) skills. These approaches prioritize experiential, hands-on learning and problem-based activities, enabling learners to apply knowledge in real-world contexts (Canavesi & Ravarini, 2024).

The integration of ICT competencies within educational frameworks has become essential for preparing individuals to thrive in increasingly digitalized workplaces. Digital literacy extends beyond technical proficiency; it supports innovative thinking, collaboration, and data-driven decision-making. As digital tools continue to reshape industries, the ability to critically engage with technology has become a foundational competency across sectors (Salas-Pilco, 2013).

Continuous Adaptation of Competency Frameworks

To remain relevant, competency frameworks must undergo continuous refinement. Emerging trends such as the rapid advancement of artificial intelligence, evolving global labor markets, and growing emphasis on sustainability require organizations and educational institutions to regularly reassess their skills models. This adaptive process ensures alignment between competency development, organizational strategy, and societal priorities (Horey et al., 2004).

Future-oriented frameworks emphasize multidisciplinarity and flexibility, acknowledging that traditional education and training models alone are insufficient to address the pace and complexity of global change. Strategic foresight enables individuals to anticipate trends and respond proactively, while digital literacy ensures effective engagement with new technologies that continuously reshape professional environments.

Human-Centric Skills in a Complex Global Landscape

Alongside technical expertise, 21st-century competency frameworks highlight the importance of human-centric skills such as emotional intelligence, creativity, cultural competence, and ethical awareness. These capabilities enable leaders and teams to connect with diverse stakeholders, foster inclusive environments, and navigate complex interpersonal dynamics.

Agile leadership represents a cornerstone of these frameworks, emphasizing collaboration, trust-building, and innovation in decision-making processes. In VUCA contexts, leaders must cultivate resilience and adaptability within their organizations while maintaining a clear sense of purpose and direction. The integration of technical and human-centered competencies ensures that organizations can respond effectively to disruption without compromising social responsibility or long-term sustainability.

Conclusion

The evolution of competencies of the future underscores the necessity of a holistic and forward-looking approach to skills development. By integrating strategic foresight, digital literacy, agile leadership, and human-centric capabilities into education systems and workforce development initiatives, individuals and organizations are better prepared to thrive in complex and uncertain environments.

These strategic competency frameworks enable dynamic responses to disruption, support innovation, and promote sustainable growth. Ultimately, they enhance not only organizational performance and individual employability but also broader societal resilience in an increasingly interconnected global economy.

References

- Canavesi, A., & Ravarini, A. (2024). Active learning and digital skills development in higher education.
- Gudanowska, A., et al. (2020). Strategic foresight and competency frameworks for future work.
- Horey, J., et al. (2004). Strategic leadership and adaptive competency models.
- Mahlangu, V. P., & Moloto, T. (2022). Agile leadership development in higher education.
- Rosso, M., & García-Salirrosas, E. (2023). Management by competencies and competitive advantage.
- Salas-Pilco, S. Z. (2013). ICT literacy and 21st-century competency frameworks.