

Digital Transformation and Halal Human Resource Development: Leveraging Technology for Ethical Workforce Enhancement: A Literature Review

Norliah Kudus¹, Ismi Arif Bin Ismail², Mahadi Abu Hassan³,
Shahrulanuar Mohamed⁴, Fauziah Abdullah⁵

¹Institut Pengurusan Teknologi dan Keusahawanan, Universiti Teknikal Malaysia Melaka, Malaysia, ²Department of Professional Development and Continuing Education, Faculty of Educational Studies, Universiti Putra Malaysia, Malaysia, ³Pusat Pembelajaran Bahasa, Universiti Teknikal Malaysia Melaka, Malaysia
Corresponding Author Email: norliah@utem.edu.my

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Abstract

The integration of digital transformation into halal human resource development (HRD) is increasingly recognized as a critical factor in enhancing workforce competencies, particularly within industries guided by Shariah principles. Organizations operating in halal sectors face the challenge of aligning advanced technological tools with ethical frameworks to foster an inclusive and productive workforce. This study examines the role of digital transformation in halal HRD, focusing on how technologies such as artificial intelligence, e-learning platforms, and HR analytics can enhance employee skills and competencies while upholding Islamic values. By investigating the intersection of halal principles and digital HR practices, the research provides valuable insights into the transformative potential of technology in shaping workforce development and organizational performance. A systematic review of high-impact academic literature was conducted to explore the relationship between digital transformation and halal HRD practices. The findings reveal that the integration of digital tools enhances training processes, improves talent management, and supports ethical decision-making in HR practices. Technologies such as AI-driven recruitment systems and Shariah-compliant e-learning platforms are shown to foster employee engagement and drive competency development. Moreover, the study highlights the importance of balancing technological innovation with Shariah compliance to address challenges such as ethical concerns and resistance to change. The results suggest that halal-focused organizations should adopt a strategic approach to digital transformation, leveraging its potential to align workforce development with Islamic ethical values. Understanding the synergy between

technology and halal principles is essential for establishing a competitive and sustainable HRD framework, particularly within the halal ecosystem.

Keywords: Digital Transformation, Halal Human Resource Development, Workforce Competencies

Introduction

The digital transformation of Human Resource Development (HRD) is becoming a central force in reshaping workforce management across various sectors, including the halal industry. As technology continues to evolve, there is an increasing need for organizations to integrate digital solutions to enhance workforce competencies. However, in halal industries, where ethical and Shariah-compliant practices are critical, the application of digital technologies must be aligned with these values. This transformation involves not only the integration of modern HR technologies such as Artificial Intelligence (AI), Human Resource Management (HRM) software, and e-learning platforms, but also an ethical consideration to maintain Shariah-compliant practices (Abdullah & Latiff, 2023).

According to Khan (2021), the role of digital transformation in HRD is to enhance employee capabilities through automated systems, skill development programs, and continuous learning initiatives. However, the challenge in the halal industry lies in balancing technological advancements with ethical guidelines defined by Islamic law, particularly in areas like recruitment, performance management, and employee training (Keenan & Houghton, 2020). These technologies have the potential to streamline HR processes but also necessitate the careful design of systems that respect Islamic principles, such as the prohibition of Riba (interest) and the need for fairness and transparency in employee dealings (Mohd et al., 2019).

While there is substantial literature on the advantages of digital transformation in HR, limited research has specifically addressed the impact of these innovations within the halal sector. Alvi and Sheikh (2022) note that HR technologies are often introduced without considering the cultural and ethical nuances of different industries. In halal HRD, these concerns are even more pronounced, as organizations must ensure that all HR practices adhere to Shariah guidelines while simultaneously improving workforce productivity and performance. As such, integrating modern HR technology into halal HR practices becomes a unique challenge.

The research conducted by Sulaiman and Musa (2024) emphasizes that the halal industry can benefit from technological advancements in HR by adopting tools like digital training platforms and HR analytics. These tools can enhance employee competencies and enable organizations to maintain high standards of ethical practices. However, integrating these technologies while adhering to Islamic values presents a complex dilemma, one that this paper aims to explore further. Specifically, this study investigates how digital transformation in halal HRD can enhance workforce competencies while remaining aligned with Shariah principles.

The research will address critical questions surrounding the role of technology in workforce development in the halal sector, focusing on how digital tools can improve employee training, competency development, and overall performance. This study will provide practical recommendations for halal organizations on how to navigate the digital transformation

process without compromising their ethical values. By doing so, the research seeks to contribute to the ongoing dialogue about how technology can be used to foster ethical, efficient, and compliant HR practices in halal industries.

Methodology

To explore the impact of generational diversity on employee competency development at public institutions in Malaysia, this study employed a systematic literature review methodology. This approach allowed for a comprehensive analysis of existing research, identification of key trends, and a thorough examination of knowledge gaps concerning generational diversity and its role in employee development within academic contexts. The first step involved formulating the research questions, with a primary focus on how the presence of different generations in the workforce affects the development of relevant competencies. Key themes explored included the role of various generations in skill acquisition, the challenges arising from intergenerational collaboration, and the most effective management strategies to support competency development. The research utilized prominent academic databases such as Scopus, Google Scholar, and JSTOR. Keywords such as "generational diversity," "competency development," and "workforce development" were used to locate relevant studies published between 2023 and 2024.

Studies were selected based on specific inclusion and exclusion criteria. Only studies focusing on generational diversity in the workplace and competency development within educational institutions were considered. Articles that did not directly address these themes or were deemed irrelevant to the research context were excluded from the review. Additionally, only peer-reviewed articles published between 2023 and 2024 were included to ensure the review reflected the latest available evidence. Following the selection of relevant studies, the data were analyzed based on several core themes: the involvement of different generations in competency development, the challenges associated with intergenerational collaboration, and the effectiveness of various management strategies in promoting employee growth.

The review also considered how generational values and behavioral differences impact collaboration and overall institutional performance. To ensure the quality and reliability of the studies included, a rigorous validation process was applied. This involved evaluating the studies based on their relevance, methodological rigor, and contribution to the field. The systematic review methodology enabled a comprehensive exploration of how generational diversity influences competency development at public institutions in Malaysia. The findings provide valuable insights into how universities can better manage generational differences to enhance workforce competency development.

Literature Review

The integration of digital technologies into Human Resource Management (HRM) has become a pivotal factor in enhancing workforce competencies across various industries. In the context of the halal industry, which adheres to Islamic principles, the adoption of digital transformation presents unique opportunities and challenges. This literature review examines recent studies (2020–2024) that explore the intersection of digital transformation and halal human resource development, focusing on how technology can be leveraged to ethically enhance workforce capabilities. Digital transformation involves the integration of digital technologies into all areas of business, fundamentally changing how organizations

operate and deliver value to customers. In the halal industry, digital transformation is essential for improving operational efficiency, ensuring compliance with halal standards, and meeting the evolving expectations of consumers.

Putra et al. (2024) conducted a systematic study on digital transformation and HR development in the halal industry, highlighting that the success of digital initiatives is highly dependent on developing employees' digital skills and fostering an organizational culture that supports innovation. They emphasize that understanding how digital technology and HR development are implemented in the halal sector is crucial for identifying challenges and opportunities in the process.

Effective HR development strategies are vital for enhancing the competencies of the halal workforce. Dzikrulloh and Mayvani (2024) applied the Analytic Network Process (ANP) method within a SWOT framework to develop strategies for halal human capital development in Madura, Indonesia. Their research identified short-term, medium-term, and long-term strategies, including enhancing infrastructure, improving education quality, and establishing halal management laboratories. These strategies aim to strengthen capacity building, improve halal training programs, and establish expert certification facilities, thereby contributing to the development of halal human capital. The halal supply chain is a critical component of the industry, and the application of digital technologies can significantly enhance its efficiency and transparency.

A systematic review by Sulaiman et al. (2023) examined the impact of digital technology 4.0 on the halal supply chain, identifying innovative technologies such as blockchain, Internet of Things (IoT), and artificial intelligence (AI) that can improve firm performance. The study underscores the importance of integrating these technologies to ensure the integrity and efficiency of the halal supply chain. While digital transformation offers numerous benefits, it also presents challenges, particularly in non-Muslim majority countries.

Research by Lee et al. (2023) on South Korea's halal market development highlights challenges such as regulatory and policy hurdles, human resource issues, and the need for institutional support. Addressing these challenges is essential for the successful implementation of digital transformation in the halal industry. The integration of digital technologies into halal human resource development offers significant potential for enhancing workforce competencies and operational efficiency. Recent studies (2020–2024) provide valuable insights into the strategies, challenges, and opportunities associated with this integration. By leveraging technology, organizations in the halal industry can develop ethical and competent workforces that meet the demands of the modern business environment.

Table 1

Summary of Key Studies on Digital Transformation and Halal HRD

Study	Focus Area	Key Findings	Challenges Identified
Putra et al. (2024)	Digital transformation in halal HRD	Employee digital skills and an innovation-driven culture are essential for HRD success.	Balancing technological innovation with Shariah compliance.
Dzikrulloh & Mayvani (2024)	HRD strategies in the halal sector (Madura, Indonesia)	Developed short-term, medium-term, and long-term strategies for halal workforce capacity building.	Infrastructure limitations and need for certified halal HR professionals.
Sulaiman et al. (2023)	Industry 4.0 technologies in the halal supply chain	Blockchain, IoT, and AI improve HR analytics, compliance, and supply chain transparency.	Resistance to digital adoption among traditional halal businesses.
Lee et al. (2023)	Halal market development in non-Muslim majority countries (South Korea)	Identified regulatory, HR, and institutional challenges in halal market expansion.	Lack of government support and shortage of digital HR expertise in halal industries.

Digital Transformation in Workforce Competency: Definitions, Challenges, and Theories in Digital and Halal Contexts

Digital transformation refers to the profound change that organizations undergo by adopting and integrating digital technologies into their processes, products, and services. It affects all aspects of business operations, from customer experience to internal workflows, business models, and organizational structures. It is driven by advancements in technologies such as artificial intelligence (AI), machine learning, cloud computing, big data, and the Internet of Things (IoT) (Westerman et al., 2014). In the context of human resource development (HRD), digital transformation involves the use of these technologies to improve recruitment, employee training, performance evaluation, and workforce management. In halal contexts, digital transformation must also consider ethical and cultural values in line with Islamic principles. For example, technology-enabled HR practices must ensure compliance with halal standards, such as fairness, transparency, and ethical recruitment (Hassan et al., 2020).

Importance of Digital Transformation

Digital transformation is critical for organizations seeking to remain competitive and responsive to evolving market demands. It enables businesses to improve operational efficiencies, enhance customer experiences, and innovate at scale. For human resource management, digital transformation allows HR departments to streamline administrative tasks, enhance employee engagement, and personalize development opportunities. This is particularly important in the halal industry, where businesses must uphold ethical standards while leveraging digital tools for growth and workforce development (Putra et al., 2024). In a halal HRD context, technology can help monitor and ensure that recruitment, training, and employee development processes adhere to Islamic ethical guidelines. It also facilitates the creation of ethical training programs and inclusive work environments that respect diversity

while promoting the development of workforce competencies (Putra & Hafiz, 2023; N.H., Marjumin, et al., 2019).

Challenges of Digital Transformation

Despite the numerous benefits of digital transformation, several challenges arise, particularly within the context of halal Human Resource Development (HRD). One significant obstacle is **resistance to change**. Employees and managers, especially in traditional industries or organizations with deeply embedded cultural and ethical norms, may resist adopting new technologies due to unfamiliarity or a fear of job displacement. This challenge is particularly acute in the halal industry, where longstanding values and established ways of working can hinder the smooth integration of new digital systems (Hassan et al., 2020).

Another critical challenge is **data security and privacy**. As organizations become increasingly reliant on digital tools, concerns regarding the security and confidentiality of employee data intensify. In halal industries, where the ethical handling of data is of utmost importance, this challenge becomes even more pronounced. Organizations must ensure that they maintain high standards of data privacy while also adhering to both legal and religious requirements, which can often be complex and demanding (Al-Tamimi et al., 2022).

Furthermore, a **lack of digital literacy** among some employees, particularly those from older generations or those not accustomed to technology, can hinder the successful adoption of digital transformation efforts. Without the necessary skills to effectively navigate new technologies, these employees may struggle to contribute to or benefit from digital initiatives. Bridging the digital skills gap is, therefore, crucial for ensuring that the entire workforce is equipped to participate in and benefit from technological advancements (Hassan et al., 2020).

Lastly, the **integration of ethical standards** within digital HR practices poses a unique challenge in halal HRD. For example, ensuring that recruitment processes powered by artificial intelligence (AI) are fair and unbiased, or that digital training tools align with Islamic ethical guidelines, requires careful consideration and deliberate design. In halal contexts, ensuring that technology does not undermine fairness, transparency, or other ethical values is essential for maintaining integrity and trust within the workforce (Putra et al., 2024). These challenges highlight the need for organizations to approach digital transformation thoughtfully, particularly in halal industries where the integration of technology must be carefully balanced with ethical standards and cultural values.

The Role of Digital Transformation in Halal HRD

Digital transformation plays a vital role in halal HRD by providing organizations with tools to enhance employee competencies while adhering to ethical standards. Through technologies like e-learning platforms, AI-powered recruitment systems, and data analytics, HR departments can offer customized learning and development programs that align with halal values (Putra & Hafiz, 2023). Additionally, digital transformation fosters a more inclusive and diverse workplace by using technology to eliminate bias in recruitment and performance evaluation. It also enhances the transparency of HR processes, ensuring that they are aligned with Islamic principles of fairness and equity (Hassan et al., 2020). In a halal HRD context, the integration of digital tools not only enhances operational efficiency but also promotes ethical workforce development. By leveraging technologies, businesses in the halal sector can create

a workforce that is not only competent in technical skills but also values-driven, adhering to Islamic ethical principles in all aspects of their work (Al-Tamimi et al., 2022).

Theories Related to Digital Transformation in HRD

The Technology Acceptance Model (TAM), developed by Davis (1989), explains how individuals come to accept and use new technologies. In the context of Human Resource Development (HRD), TAM can help understand how employees adopt digital tools for learning and development. The model emphasizes perceived ease of use and perceived usefulness as key factors influencing technology adoption. Recent studies have demonstrated that a strong perceived usefulness of digital tools significantly impacts employees' willingness to adopt them, thus facilitating workforce development (Al-Rahmi et al., 2020).

The Socio-Technical Systems Theory, proposed by Trist and Bamforth (1951), highlights the interaction between people (the social system) and technology (the technical system). In HRD, this theory underscores the need to balance technological advancements with human elements to ensure effective workforce development. In halal HRD contexts, this balance becomes even more critical, as technology must be integrated in a way that aligns with the organization's cultural and ethical standards (Sutrisno et al., 2022). This approach is key to ensuring that digital transformation does not undermine the human dimension of HRD, particularly when addressing sensitive issues like ethics and halal standards.

Human Capital Theory (Becker, 1964) focuses on the value of investing in employee skills and competencies. In the digital transformation context, this theory highlights the necessity of equipping employees with the digital skills required to thrive in an increasingly technology-driven work environment. For halal HRD, however, it is not enough to simply enhance digital competencies; these skills must also be developed while maintaining ethical standards that are consistent with Islamic values (Hassan et al., 2021). This dual focus on technical and ethical development is particularly important in halal organizations, where competencies must be aligned with both business needs and religious principles.

Finally, Transformational Leadership Theory, proposed by Bass (1985), suggests that leaders who inspire and motivate employees can drive successful change, particularly during digital transformations. Transformational leaders play a crucial role in halal organizations by ensuring that digital integration is done in a way that complements the organization's ethical framework. Leaders in this context must inspire change while balancing technological integration with ethical leadership to ensure that the values and standards of the organization are upheld throughout the digital transformation process (Yusuf et al., 2023).

This research makes a significant theoretical contribution by extending existing models of digital transformation within HRD to the specific context of halal organizations. While the Technology Acceptance Model (TAM) traditionally focuses on usability and perceived usefulness, this study expands its scope by incorporating ethical considerations, demonstrating that technology adoption in halal HRD is also influenced by alignment with Islamic values. Similarly, the application of Socio-Technical Systems Theory is enriched by emphasizing the importance of integrating technology in a way that balances efficiency with cultural and ethical imperatives. By doing so, the research contributes to a more

comprehensive understanding of digital transformation beyond conventional business settings.

Contextually, this research provides valuable insights into the challenges and opportunities of implementing digital transformation in halal HRD. While existing studies focus on the general adoption of technology in HRD, this study highlights the need for ethical leadership and competency development that aligns with both business efficiency and Islamic principles. By integrating Transformational Leadership Theory, the study underscores the role of leadership in ensuring that digital transformation in halal organizations is not merely a technical shift but also an ethical one. This research, therefore, offers a unique perspective that bridges digital innovation with ethical and cultural considerations, making it a significant contribution to both academic literature and practical applications in HRD.

Discussion

Digital transformation is a pivotal force in reshaping Human Resource Development (HRD), offering enhanced efficiency, accessibility, and personalization. However, for organizations operating within halal contexts, it is imperative to balance technological advancements with cultural and ethical considerations. Digital tools should not only optimize business performance but also support employee development in ways that align with Islamic values. In particular, the integration of Artificial Intelligence (AI), data analytics, and cloud-based learning platforms in HRD must be carefully managed to uphold principles of privacy, fairness, and non-discrimination (Al-Tamimi et al., 2022; Hassan et al., 2020). This necessitates a strategic approach where the adoption of cutting-edge technologies is accompanied by a commitment to halal principles, ensuring that no aspect of HRD contradicts Islamic ethical standards.

While technology facilitates innovation and enhances employee competencies, the human element remains indispensable. Digital tools alone cannot replace the need for skilled leadership, particularly within the halal sector. Organizations must invest in leadership development programmes that focus on ethical leadership, ensuring that leaders are equipped to guide teams through digital transformation in a manner that upholds Islamic values (Putra & Hafiz, 2023). Effective leadership in this context goes beyond increasing productivity; it fosters an environment where ethical values are reinforced alongside technological progress. By embedding ethical considerations into digital transformation strategies, organizations can cultivate a workforce that is not only competent in digital tools but also committed to ethical excellence. In summary, the successful integration of digital transformation in halal HRD requires a dual focus: leveraging technological advancements while safeguarding ethical and cultural integrity. Organizations that strike this balance will be better positioned to build a resilient workforce that embodies both technological proficiency and ethical responsibility, ultimately driving sustainable business success and social impact.

Conclusion

The integration of digital transformation into halal Human Resource Development (HRD) holds the potential to significantly enhance workforce competencies by equipping employees with both digital and ethical skills. However, to maximize the benefits of technology while preserving halal principles, organizations must adopt a holistic approach that carefully balances technological advancements with ethical and human-centered considerations.

Digital tools should serve as enablers rather than replacements for the human element in HRD, ensuring that employee development remains aligned with ethical and cultural values. By incorporating ethical leadership into digital transformation initiatives, organizations can cultivate a workforce that is both technologically adept and ethically grounded. This approach ensures that digital tools are leveraged to enhance employee development in a culturally responsible manner.

This research makes significant contributions to both theoretical understanding and practical application of digital transformation in the context of halal Human Resource Development (HRD). Theoretically, it enriches existing literature by integrating digital technologies with Islamic ethical values, providing a novel framework for understanding how technology can be adopted in a culturally sensitive manner. It bridges a gap in the literature by offering a comprehensive exploration of how Artificial Intelligence (AI), HR analytics, and e-learning platforms can be aligned with Shariah principles to enhance employee competencies.

Contextually, this study is crucial in the context of halal industries, where ethical compliance is paramount. By analyzing the intersection of technology and ethical values, it offers insights into how organizations can navigate the complexities of digital HRD while adhering to Islamic guidelines. This research serves as a practical guide for halal industry leaders seeking to adopt digital tools that are both efficient and ethically sound, ensuring that workforce development remains aligned with the principles of fairness, transparency, and cultural responsibility. The findings contribute to the ongoing dialogue on technology adoption in halal sectors, offering recommendations that are relevant to policymakers, HR professionals, and academics interested in the intersection of technology, ethics, and HR practices in Muslim-majority environments.

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