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EDITORIAL

It is heartening to see that the eleventh issue of the VICHARA AN INTERNATIONAL JOURNAL OF MANAGEMENT has been brought out successfully. An educational journal is a platform where knowledge gets amplified and disseminated; research results and innovations are documented and unique experiences are shared for enhancement of knowledge. The design architecture of Vichaara is made in such a way that it becomes a comprehensive document to reflect the different dimensions of Management discipline. Business Research forms the core part wherein original, empirical based research papers are included. This issue comprises articles on recent issues in business world from different disciplines. These articles show a methodological way of conducting a research and presenting their findings. Findings on technology influence, cultural changes in the organizations, behavioural changes among the consumers and their expectations have been presented with relevant facts. We invite scholarly articles and research papers and write ups on robust cases. Suggestions and views from readers and scholars are solicited for the qualitative improvement of the Journal.

FACTORS INFLUENCING THE DIGITALIZATION AND HYBRIDIZATION OF TRAINING PROGRAMS FOR SERVICE TECHNICIANS IN THE WIND INDUSTRY: A COMPREHENSIVE ANALYSIS

Manu K Jacob, Research Scholar, CMS Institute of Management Studies, Bharathiar University, Coimbatore.

Dr. S. Suganya, Associate Professor, CMS Institute of Management Studies, Bharathiar University, Coimbatore.

Abstract

This study investigates the critical factors influencing the digitalization and hybridization of training programs for service and installation technicians at Vestas, a global leader in the wind energy sector. The research examines key variables such as geographic location, infrastructure availability, resistance to change, and the scale of participants to identify both challenges and opportunities in implementing effective digital and hybrid learning models. The findings highlight the importance of context-specific training strategies, investments in digital infrastructure, and robust change management practices. This research contributes to the evolving discourse on workforce development in the renewable energy sector and offers actionable insights for organizations transitioning to technology-driven learning environments.

Keywords: Digital Training, Hybrid Learning, Wind Energy Industry, Renewable Energy Sector, Workforce Development, Training Digitalization.

Introduction

As the global wind energy sector expands, the need for a highly skilled workforce is paramount. Vestas, as an industry leader, relies extensively on trained service and installation technicians to ensure the effective operation and maintenance of wind turbines (IRENA, 2021). In response to dynamic industry demands, technological advancements, and the accelerated shift towards remote solutions driven by the COVID-19 pandemic, Vestas has increasingly adopted digital and hybrid training models recognized for their cost-effectiveness, flexibility, and scalability (Bersin, 2017). While traditional classroom-based training has long been guided by frameworks such as Bloom's Taxonomy, the growing adoption of digital learning requires organizations to reassess their methodologies (Allen & Seaman, 2017). However, the success of digital and hybrid models depends on addressing multiple influencing factors, such as demographic variability, infrastructure readiness, resistance to technological change, and the volume of participants involved.

Review of Literature

Digitalization integrates technology with learning, enabling scalable, flexible, and personalized training experiences (Salas et al., 2012). It facilitates remote access to content, interactive engagement, and real-time performance monitoring (Bersin, 2017), offering particular advantages to geographically dispersed industries like wind energy (IRENA, 2021).

Hybrid learning—combining digital content with face-to-face training—is increasingly recognized for its ability to bridge theoretical knowledge with practical competencies (Garrison & Vaughan, 2008; Graham, 2013). Especially in technical industries, a balanced integration of digital modules and hands-on training ensures optimal learning outcomes (Means et al., 2013).

- *Geographic Location & Infrastructure*: Participants in remote regions often face connectivity and resource limitations, necessitating offline solutions or hybrid models (UNESCO, 2020; Alamri & Watson, 2020).
- *Resistance to Change*: Resistance from trainers and participants is a common barrier to adopting new technologies (Kotter, 1996). Change management strategies, including communication and support mechanisms, are crucial (Armenakis & Harris, 2009).
- *Participant Volume & Scalability*: Large-scale training across diverse locations benefits significantly from digital platforms, though initial investments in content and infrastructure are necessary (Salas et al., 2012).

Methodology

This study adopts a conceptual methodology aimed at identifying and analyzing the key factors shaping digital and hybrid training at Vestas. Guided by Garrison & Vaughan's (2008) framework, the research categorizes variables based on organizational context and workforce diversity, emphasizing flexible and adaptable training models.

Research Objectives

- To identify critical factors influencing digital and hybrid training implementation.
- To analyze interdependencies among these factors.
- To offer strategic insights for optimizing training outcomes.

Analysis of Influencing Factors

Each factor is analyzed based on its relevance to Vestas' global workforce:

Factor	Implication in Training Delivery
Geographic Location	Infrastructure disparities necessitate offline content in remote areas.
Network Connectivity	Poor internet access requires asynchronous modules or downloadable content (Van Dijk, 2020).
Infrastructure Availability	Adequate digital tools and devices are essential for training success.
Time Zone Variability	Asynchronous learning accommodates diverse global schedules.
Travel & Accommodation Costs	Digital models reduce logistical expenses significantly.
Training Complexity	Basic skills are suitable for digital learning; expert-level skills require hybrid formats.
Interaction Requirements	Technical problem-solving demands interactive or in-person sessions.
Volume of Participants	Digital models support scalability while ensuring content consistency (Bersin, 2017).
Practical Training Sessions	Virtual reality and simulation-based learning supplement hands-on experience (Mayer, 2014).
L&D Team Capabilities	Continuous development of the L&D team enhances training quality.
Resistance to Change	Change management strategies drive adoption among trainers and learners (Kotter, 2012).
Digital Literacy of Participants	Customized support ensures effective technology adoption (Prensky, 2001).

Discussion

Vestas has successfully leveraged hybrid training models, integrating online learning with practical sessions and investing in digital simulation technologies. Tailoring content to participant needs based on location, infrastructure, and learning levels ensures inclusivity and engagement. At the same time, standardized digital content maintains training quality and efficiency across diverse locations.

Contribution to the Field

This research underscores the significance of context-specific strategies in digital and hybrid training for technical industries. The flexible framework proposed herein can guide other organizations within the renewable energy sector seeking to balance scalability, cost-effectiveness, and sustainability in workforce development.

Advantages of Digitalization & Hybridization in Training

- Enhanced flexibility and scalability.
- Cost reduction in travel and accommodation.
- Improved accessibility in remote locations.
- Tailored training solutions for diverse learning needs.
- Minimized work disruptions through modular learning.
- Realistic skill development via virtual simulations.
- Improved digital literacy across the workforce.
- Sustainable training aligned with environmental goals.

Conclusion

The digitalization and hybridization of training in the wind energy industry, exemplified by Vestas, offer transformative potential for workforce development. By investing in infrastructure, fostering digital literacy, and implementing change management strategies, organizations can ensure successful training outcomes that align with both operational efficiency and sustainability objectives (Means et al., 2010; UNESCO, 2020; Schaltegger & Wagner, 2011).

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Vivekananda Institute of Management Studies,
Karuvalur Road, Kovilpalayam, Coimbatore-641107
Email: vim@vimsobe.ac.in
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