

NURS-FPX6109 Assessment 1: Educational Technology Needs Assessment

Student Name

Program Name or Degree Name (e.g., Bachelor of Science in Psychology), University

COURSE XXX: Title of Course

Instructor Name

Month XX, 2024

NURSINGGLANCE.COM

Educational Technology Needs Assessment

Educational technology has become an integral part of nursing education as nurses recognize its potential to enhance learning and professional development. Currently, nurses are actively utilizing various educational technologies to increase their knowledge, sharpen their abilities, and keep up with medical breakthroughs (Booth et al., 2021). This article examines how educational technology is currently used in the nursing environment, contrasts it with desired best practices, goes over the metrics used to evaluate its benefits, and makes suggestions and enhancements that could further improve nursing education.

State of Educational Technology

Nurses are embracing educational technology in various ways to improve learning and professional development in the selected nursing education environment. According to Booth et al. (2021), these tools include electronic health record (EHR) systems, mobile applications, online courses, webinars, virtual simulation programs, and computer-based training modules. Interactive modules and assessments are provided in computer-based training to speed up learning and skill development. Programs for virtual simulation offer a secure setting for nurses to practice clinical scenarios and develop critical thinking abilities. Nurses can easily receive continuing education through online courses and webinars, expanding their expertise and keeping up with the most recent developments in healthcare (Han et al., 2019).

Electronic health records systems are used to document patient care, retrieve information, and communicate with other medical professionals. Booth et al. (2021) note that this streamlines the nursing workflow and encourages effective patient care. Mobile applications focusing on nursing education offer instant access to clinical guidelines, drug databases, and reference materials. However, more data is required to give a more thorough and accurate account of how

educational technology is used. Data on the frequency and length of technology use, the particular technologies that nurses choose, their levels of expertise, and any difficulties they may encounter when using these tools would be helpful. Additionally, knowing how nurses view and feel about the technology used in education would help us better understand how it works and where it might need to be improved (Booth et al., 2021). A thorough needs assessment will assist in evaluating these assumptions and give a more complete picture of the present usage and possible gaps, even though the description offered is based on broad assumptions regarding the use of educational technology in nursing education.

Comparison of Educational Technology

I will use the gap analysis to compare how educational technology is currently being used and what the desired best practices are in nursing education. The business currently uses a variety of instructional technologies, including computer-based training modules, virtual simulations, online courses, electronic health record systems, and mobile applications. As Han et al. (2019) reiterate, the use and execution of these technologies, however, may differ throughout the organization's many divisions and initiatives. There can be irregularities in how technology is incorporated into the curriculum, restricted access to technology resources, and inadequate nursing assistance and training. A lack of standardized platforms and opposition to change could also make it difficult to use technology in education effectively.

Best Practices: A number of best practices make up the ideal state of educational technology utilization in nursing education. All nursing programs and departments must follow standardized platforms and rules for incorporating technology into the curriculum. To guarantee access to educational technology, adequate infrastructure and resources must be offered (Han et al., 2019). Comprehensive training programs should be created to improve nurses' skills and

confidence in their ability to use these technologies effectively. The company should promote a culture that welcomes new technology, stimulates creativity, and encourages ongoing professional growth in educational technology (Han et al., 2019). The ideal situation also entails assessing how educational technology affects nursing procedures, employee productivity, and patient outcomes and making data-driven adjustments. By conducting a gap analysis, we can pinpoint the precise areas where the organization falls short of achieving the desired state. This analysis will assist us in creating a plan to close those gaps and put initiatives in place to increase the use of educational technology, ultimately improving nursing practices, employee productivity, and patient outcomes (Han et al., 2019).

Advantages of Using Modern Instructional Technology

It is crucial to check whether the metrics used to calculate the advantages of using modern educational technology in the case study are enough for the desired goal. Metrics like learner engagement, knowledge gain, skill development, and learner satisfaction may be included in the regularly used metrics in this context (Han et al., 2019). However, they might not be sufficient on their own to fully capture the influence on nursing procedures, staff performance, and patient outcomes from using educational technology in nursing education. According to Haleem et al. (2022), checking whether the metrics used to calculate the advantages of using modern educational technology in the case study are enough for the desired goal is crucial.

Adopting further best practices is advised to enhance the data's quality, interpretation, and use: Compliance with organizational objectives: Ensure that the metrics selected comply with the aims and objectives of the organization. This will make it easier to determine how directly educational technology has affected the desired results, such as better patient care or improved nursing skills. Include outcome-oriented measures that explicitly connect the use of

instructional technology to better patient outcomes and nursing performance (Han et al., 2019). Metrics like decreased medication mistakes, higher adherence to evidence-based practices, or higher patient satisfaction ratings might be included.

Implement longitudinal metrics tracking to determine the long-term effects of educational technology interventions. This will give a more thorough grasp of the long-term advantages and prospective areas for development. Data triangulation: Use techniques like surveys, interviews, or focus groups to combine quantitative measures with qualitative data (Booth et al., 2021). This will give deeper insights into nurses' experiences and viewpoints, assisting in identifying both successful and ineffective regions. Continuous improvement: Review and update the chosen metrics on a regular basis based on input from stakeholders and developing industry best practices. This will guarantee that the metrics stay pertinent, significant, and in line with the changing objectives of nursing education. The organization can improve the quality, interpretation, and application of data linked to educational technology use by implementing these best practices (Booth et al., 2021). This will support evidence-based improvements, encourage informed decision-making, and ultimately help the organization reach its nursing education objectives.

New or Existing Educational Technology

According to its official statement, the strategic purpose of the Hennepin Healthcare facility in Minneapolis is to collaborate with the local population, patients, and their families to deliver exceptional care to everyone. Additionally, the mission places a strong emphasis on the value of enhancing health and well-being via research, patient and community education, and teaching (Hennepin Healthcare, 2023). The goals and objectives of Hennepin Healthcare can be significantly supported by educational technology to keep with this mission. The hospital has

multiple opportunities to improve access to excellent care, promote health and well-being, and use new or existing instructional technology.

In-house initiatives for teaching and training can be facilitated by educational technology, ensuring that healthcare personnel have the information and skills they need to deliver top-notch care. For people and their families to actively participate in their own healthcare and make informed decisions, it can assist patient education initiatives. Additionally, community education initiatives that raise knowledge of disease management, healthy lifestyles, and preventive measures can make use of educational technology (Han et al., 2019). Hennepin Healthcare can further its goal of improving community health by utilizing instructional technology. These tools can help the organization advance its research efforts, encourage evidence-based practices, and enhance patient outcomes. The hospital's dedication to providing excellent treatment to everyone and promoting general community health will be fueled by the synergy between the strategic mission and the use of educational technologies (Hennepin Healthcare, 2023).

Changes to Existing Educational Technology

Enhance training programs to ensure nurses have the skills and knowledge necessary to use educational technology effectively. Provide continuing assistance and resources, such as user guides, how-to videos, and help centers, to answer any problems or queries that may emerge when implementing new technology. Standardized Incorporation: Establish uniform policies and procedures for incorporating instructional technology into the nursing curriculum (Booth et al., 2021). This will guarantee uniform application across various programs and departments, fostering a unified learning environment for students.

User input and Collaboration: Encourage nursing educators and students to actively participate in and provide input on developing and enhancing educational technology. Thanks to

this cooperative approach, the technology will be tailored to the unique requirements of the nursing education community. Collect and examine data on the efficiency of educational technologies in nursing education (Cutajar, 2019). Data-Driven Decision-Making: Metrics, including learner engagement, knowledge retention, and clinical performance, are among those that are evaluated in this process (Booth et al., 2021). Make decisions about the choice and application of instructional technology in light of this evidence.

Continuous Improvement and Innovation: Keep abreast of cutting-edge pedagogical innovations and nursing education best practices. Examine novel tools that can improve patient outcomes and learning experiences while routinely assessing the efficacy of current technologies. By promoting a more productive and effective learning environment, these suggestions will enhance nursing education (Booth et al., 2021). It will increase student involvement, encourage active learning, and make it easier to pick up important knowledge and skills.

Additionally, integrating technology consistently across nursing schools will guarantee consistency and coherence and eventually prepare nurses to fulfill the demands of contemporary healthcare. It is crucial to rely on empirical research, best practices in nursing education, and the experiences and input of nursing educators and students to support these conclusions and suggestions (Booth et al., 2021). Evidence for the efficacy and advantages of the suggested improvements can be found in published studies, educational technology guidelines from respectable nursing education organizations, and actual cases of successful technology integration.

Conclusion

Nurses are embracing educational technology in various ways to improve learning and professional development in the selected environment of nursing education. Knowing how

nurses view and feel about the technology used in education would help us better understand how it works and where it might need to be improved. By conducting a Gap analysis, we can identify the specific areas where the organization falls short in achieving the desired state. This analysis will help us develop a roadmap to bridge those gaps and implement strategies to improve the utilization of educational technology, ultimately enhancing nursing processes, staff performance, and patient outcomes. By aligning the features and capabilities of educational technology with the organization's strategic mission, nursing leaders can ensure that the technology supports the organization's goals and contributes to its overall success in delivering quality education and healthcare services.

NURSINGLANCE.COM

References

Booth, R. G., Strudwick, G., McBride, S., O'Connor, S., & Solano López, A. L. (2021). How the nursing profession should adapt for a digital future. *The BMJ*, 373, n1190.

<https://doi.org/10.1136/bmj.n1190>

Cutajar, M. (2019). Teaching using digital technologies: Transmission or participation? *Education Sciences*, 9(3), 226. <https://doi.org/10.3390/educsci9030226>

Haleem, A., Javaid, M., Qadri, M. A., & Suman, R. (2022). Understanding the role of digital technologies in education: A review. *Sustainable Operations and Computers*, 3(3), 275–285. <https://doi.org/10.1016/j.susoc.2022.05.004>

Han, E. R., Yeo, S., Kim, M. J., Lee, Y. H., Park, K. H., & Roh, H. (2019). Medical education trends for future physicians in the era of advanced technology and artificial intelligence: an integrative review. *BMC Medical Education*, 19(1), 460.

<https://doi.org/10.1186/s12909-019-1891-5>

Hennepin Healthcare. (2023). *About Hennepin Healthcare*. Hennepin Healthcare.

<https://www.hennepinhealthcare.org/about-us/>

<https://nursinglance.com/>