



# Nursing Education Professional Development Needs Assessment Survey

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## Needs Assessment Overview

Healthcare associated technologies play a vital role in professional team communication and with the patients they serve. The rich landscape of advancing technology has the potential to deliver efficient with impacts for improved quality and safe care. Faculty and nursing staff professional development is continuously needed to meet the advances of artificial intelligence and integration of healthcare informatics. The field of nursing informatics focuses on the optimization of nursing care delivery and advances in patient-centered health information technologies. Faculty must continuously learn principles of healthcare device integration to support the teaching and learning process for students. The intent is to conduct a wide survey of learning needs within the nursing school faculty setting.

## Needs Assessment Survey

**For the first five statements below, on a scale of 1 to 5, where 1 is defined as “extremely uncomfortable” and 5 is defined as “extremely comfortable”, rate the following statements:**

1. I am comfortable with technologies for Learning Management Systems (e.g. Blackboard, Canvas, Moodle), Microsoft Office Suite (e.g. presentation preparation, data management, communication), calendar scheduling systems (e.g. Calendly) virtual meeting spaces (e.g. Zoom, Teams Meeting, WebEx), plagiarism and academic integrity support systems (e.g. Pangram, Turnitin), and exam item writing.
2. I am comfortable with device integration in the *direct care clinical setting* such as encrypted texting with providers and allied health (e.g. Epic-Haiku, Perfectserve, Mobile Heartbeat), smart pump technology (e.g. Alaris, BBraun, CADD Solis patient-controlled analgesia), health record integration devices (e.g. Rover, scanners for barcode medication administration, cardiac, ventilator, and vital sign monitors, facility track boards, modified early warning score systems), and patient centered portal (e.g. Patient Portal).
3. I am comfortable with teaching the topic of wearable technology for patients with chronic diseases in the *virtual care setting* for chronic diseases such as heart failure, diabetes, chronic obstructive pulmonary diseases with virtual care devices (e.g. Kardia, continuous glucose monitoring, electronic stethoscope, pulse oximeter, otoscope, thermoscope, bioimpedance analyzer, etc.).
4. I am comfortable with leveraging ambient listening technology in my work and understand the ethical, social and security implications on the use of artificial intelligence in nursing.
5. I am comfortable and understand how to use effective prompts to query artificial intelligence in instructional design to meet the learning needs of nursing students.

**For the following open-ended questions please describe your needs and concerns to the following questions:**

6. What information systems are needed to develop communication tools for teaching and learning materials?
7. What types of device integration in the *direct care clinical setting* are unfamiliar to me?
8. What types of device integration in the *virtual care setting* are unfamiliar to me?
9. What tools are needed to model and teach safe, secure and effective communication principles that are available in the field of nursing informatics?
10. Which professional development topic in healthcare information technology will meet my most pressing need for professional growth and knowledge?