AI CERTs®

AI + Nurse Practitioner™

Certification

Executive Summary

The AI+ Nurse Practitioner certification program equips healthcare professionals with the essential skills to integrate artificial intelligence into nursing practice. By focusing on AI technologies and their application in clinical settings, the certification prepares nurses to enhance patient care, optimize workflows, and improve decision-making. The program covers AI fundamentals, data analytics, machine learning, and ethical considerations, enabling nurses to confidently leverage AI tools to advance patient outcomes. With the growing role of technology in healthcare, the AI+ Nurse Practitioner certification provides a critical edge for nurses seeking to stay at the forefront of the evolving healthcare landscape.

Prerequisites

- **Basic Nursing Knowledge:** Understanding of clinical practices and patient care.
- **Familiarity with Healthcare Technology:** Experience with electronic health records and medical devices.
- **Introduction to Data Science:** Understanding data analysis and interpretation in healthcare.
- **Basic AI and Machine Learning Concepts:** Knowledge of algorithms and predictive modeling.
- **Critical Thinking and Problem Solving:** Ability to make data-driven healthcare decisions.

Exam Blueprint

Number of Questions

50

Passing Score

35/50 or 70%

Duration

90 Minutes

Format

Online via AI Proctoring platform

Question Type

Multiple Choice/Multiple Response

Exam Overview

Module	Weight
What is AI for Nurses?	7%
AI for Documentation, Workflow, and Data Literacy	15%
Predictive AI and Patient Safety	15%
Generative AI in Nursing	15%
Ethics, Safety, and Advocacy in AI Integration	12%
Evaluating and Selecting AI Tools	12%
Implementing AI and Leading Change on the Unit	12%
Capstone Project – Designing a Personal AI-in-Nursing Impact Plan	12%
	100%

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Certification Modules

Module 1

What is AI for Nurses?

1.1 What is AI for Nurses?

1.2 Where AI Shows Up in Nursing

1.3 Case Study: Improving Patient Safety and Nursing Efficiency with AI at Riverside Medical Center

1.4 Hands-on: Using Nurse AI for Clinical Data Visualization in Postoperative Nursing Care

Module 2

AI for Documentation, Workflow, and Data Literacy

2.1 Introduction to Natural Language Processing

2.2 Workflow Automation: Transforming Nursing Practice

2.3 Beginner's Guide to Data Literacy in Nursing

2.4 Legal & Compliance Basics in Nursing AI Documentation

2.5 Case Study: Integrating AI and Workflow Automation at Massachusetts General Hospital (MGH)

2.6 Hands-On Exercise: Using the ChatGPT Registered Nurse Tool in Clinical Documentation and Patient Education

Module 3

Predictive AI and Patient Safety

3.1 Understanding Predictive Models

3.2 Alert Fatigue and Trust

3.3 Simulation Activity: Responding to Real-Time Deterioration Alerts

3.4 Collaborating Across Teams

3.5 Bias in Predictions

3.6 Case Study

3.7 Hands-on Activity: Interpreting Predictive Alerts with ChatGPT

Module 4

Generative AI in Nursing

4.1 Introduction to Generative AI in Nursing

4.2 Large Language Models (LLMs) for Nurses

4.3 Creating Patient Education Materials with AI

4.4 Ensuring Safe and Ethical Use of AI

4.5 Case Study

4.6 Hands-On Activity: Exploring AI-Powered Differential Diagnosis with Symptoma

Module 5

Ethics, Safety, and Advocacy in AI Integration

5.1 Bias, Fairness, and Inclusion

5.2 Informed Consent and Transparency

5.3 Nurse Advocacy and Professional Responsibilities

5.4 Creating an Ethics Checklist

5.5 Stakeholder Feedback Techniques

5.6 Legal and Regulatory Considerations

5.7 Psychological and Social Implications

5.8 Case Study: Addressing Racial Bias in Healthcare Algorithms (Optum Algorithm Case).

5.9 Hands-on: Uncovering Bias in Diabetes Risk Prediction: A Fairness Audit Using Aequitas

Module 6

Evaluating and Selecting AI Tools

6.1 Understanding Performance Metrics

6.2 Vendor Red Flags

6.3 Nurse Role in Selection

6.4 Evaluation Templates and Checklists

6.5 Use Cases: AI in Clinical Decision-Making

6.6 Case Study: Using AI to Enhance Real-Time Clinical Decision-Making at UAB Medicine with MIC Sickbay

6.7 Hands-on: Evaluating AI Diagnostic Model Performance Using Confusion Matrix Metrics

Module 7

Implementing AI and Leading Change on the Unit

7.1 Building Buy-In: Promoting AI as an Ally, Not a Competitor

7.2 Change Management Essentials

7.3 Creating an AI Playbook: A Comprehensive Roadmap for Sustainable Success

7.4 Monitoring Quality Improvement: Leveraging AI Metrics for Continuous Enhancement

7.5 Error Reporting and Safety Protocols: Ensuring Safe and Reliable AI Integration

7.6 Hands-On Activity: Calculating Clinical Risk Scores and Visualization with ChatGPT

Module 8

Capstone Project: Designing a Personal AI in Nursing Impact Plan

Additional Module

AI Agents for AI+ Nurses

9.1 What Are AI Agents?

9.2 How Does an AI Agent Work in Healthcare?

9.3 Core Characteristics of AI Agents

9.4 Importance of AI Agents (General + Nursing)

9.5 Significance of AI Agents in Nursing

9.6 Types of AI Agents?

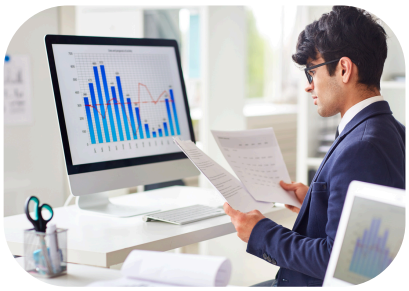
9.7 Applications and Trends in Nursing

9.8 Case Study - AI Agents for Nursing Workflow & Sepsis

9.9 Hands-On Lab

Certification Outcome for Participants

Upon completing the AI + Nurse Practitioner course, participants are equipped with the essential knowledge and skills to integrate artificial intelligence into clinical settings. The course enhances their understanding of AI tools, from improving patient care to optimizing workflow efficiency. Learners gain practical experience in utilizing AI for clinical decision-making, risk assessment, and data-driven outcomes. This course empowers them to lead AI adoption in their workplace confidently, ensuring both patient safety and staff productivity. Participants now have the confidence to champion AI technologies and actively contribute to transforming healthcare delivery.



Market Insight

The healthcare industry is rapidly adopting AI technologies to improve patient care and operational efficiency, creating a growing demand for skilled professionals who can lead AI integration in clinical environments.

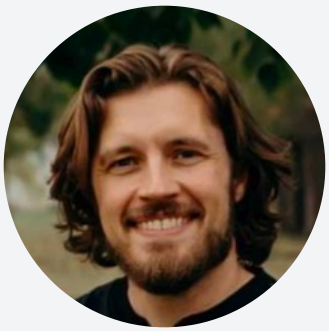
Value Proposition

AI + Nurse Practitioner certification empowers healthcare professionals with the knowledge and skills to effectively implement AI solutions, enhancing clinical decision-making, workflow efficiency, and patient outcomes.

Additional Features

The course offers hands-on training with AI tools, real-world case studies, and expert-led insights, ensuring practical, actionable knowledge that prepares learners for AI-driven transformations in healthcare.

AI Experts



Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.

Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.

J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.

Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)

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