



AI Certification Program

AI+ Healthcare Administrator Practitioner™



Executive Summary

The AI+ Healthcare Administrator Practitioner certification prepares professionals to lead the integration and management of AI technologies in healthcare organizations. Focusing on both technical and administrative aspects, the certification covers key areas such as AI implementation, healthcare data management, patient care optimization, and regulatory compliance. Participants will learn how to leverage AI for enhancing operational efficiency, improving decision-making, and ensuring patient privacy and data security. The program also addresses ethical concerns, sustainability, and AI governance, providing administrators with the tools to drive digital transformation while maintaining high standards in healthcare delivery and administration.

Prerequisites

- **Basic Understanding of Healthcare Systems:** Familiarity with healthcare operations and structures.
- **Fundamental Knowledge of AI Concepts:** Understanding machine learning and AI fundamentals.
- **Data Privacy and Security Awareness:** Knowledge of HIPAA and data protection laws.
- **Project Management Skills:** Ability to manage healthcare AI implementation projects.
- **Familiarity with Healthcare Software:** Experience with electronic health records (EHR) and healthcare platforms.

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
Fundamentals of AI for Healthcare Administrators	5%
Data Literacy for Healthcare Admins	11%
AI in Operations Optimization	12%
NLP and Generative AI in Admin Work	12%
AI in Billing, Coding & Claims	12%
Ethics, Bias & Regulation in Admin AI	12%
Evaluating and Procuring AI Tools	12%
Telehealth, Virtual Care and Cybersecurity in the Age of AI	12%
Becoming an AI Champion in Admin Settings	12%
	100%

The logo for AI CERTs, featuring a stylized 'AI' icon followed by the text 'CERTs' with a registered trademark symbol.

AI CERTs®

AI⁺

Healthcare Administrator
Practitioner™

A stylized graphic of a human head in profile, facing left, composed of blue digital lines and circuitry. The head is filled with glowing blue patterns, representing artificial intelligence or data processing.

Certification Modules

Module 1

Fundamentals of AI for Healthcare Administrators

1.1 Understanding of AI

1.2 AI in Healthcare Operations

1.3 Case Study

1.4 Hands-On: No-Code AI-Based Chest X-ray Classification for COVID-19 and Lung Conditions Using Google Teachable Machine

Module 2

Data Literacy for Healthcare Admins

2.1 Understanding Healthcare Data Types

2.2 Using Data for Decisions

2.3 Case Study 1: Apollo Hospital's AI-Based Discharge Management System

2.4 Case Study 2: Cleveland Clinic's AI Integration for Medical Billing Optimization

2.5 Hands-On: No-Code Exploration of a Hospital Analytics Dashboard Using Vizly.ai

Module 3

AI in Operations Optimization

3.1 Streamlining Patient Flow and Resource Optimization

3.2 Inventory, Maintenance, and Procurement

3.3 Case Study 1: AI-Powered Emergency Interhospital Transfers

3.4 Case Study 2: AI for Inventory Waste Reduction in Hospital Supply Chains (Mayo Clinic, Cleveland Clinic & Rush University)

3.5 Hands-On: AI-Driven Hospital Operations Optimization: A No-Code Predictive Interface Using Julius AI

Module 4

NLP and Generative AI in Admin Work

4.1 Foundations of NLP and Chatbots

4.2 Writing and Communication Tasks with Generative AI

4.3 Case Study: Alleviating Physician Burnout via Clinical Documentation Assistance

4.4 Hands-On: Meeting Summarization Assistant for Healthcare Admin

Module 5

AI in Billing, Coding & Claims

5.1 AI in Medical Coding and Documentation

5.2 Claims Management and Fraud Detection

5.3 Hands-On: No-Code AI-Powered Medical Claims Denial Prediction

Module 6

Ethics, Bias & Regulation in Admin AI

6.1 Identifying Bias in Administrative AI Tools

6.2 Legal & Compliance Considerations

6.3 Case Study: AI Triage Failure and Legal Exposure at North Bridge Hospital

6.4: Hands-On: Analyzing Hospital Admission Bias with Claude AI

Module 7

Evaluating and Procuring AI Tools

7.1 Assessing AI Tools for Quality and Relevance

7.2 Implementation Planning and Procurement

7.3 Case Study 1: AI-Powered Cancer Detection at Tata Memorial Hospital

7.4 Case Study 2: AI-Powered Eye Screening by Forus Health and Microsoft

7.5 Hands-On: Healthcare Data Visualization with No-Code BI Tools

Module 8

Telehealth, Virtual Care, and Cybersecurity in the Age of AI

8.1 Understanding Cyber Threats in AI-Driven Healthcare

8.2 Building a Secure AI-Operations Environment

8.3 Case Study 1: WannaCry Attack on NHS (2017)

8.4 Case Study 2: Universal Health Services Ransomware Attack (2020)

8.5 Hands-On: AI Cybersecurity Risk Dashboard Implementation Using Google Looker Studio

Module 9

Becoming an AI Champion in Admin Settings

9.1 Introduction: Why This Module Matters Now

9.2 Leading Small-Scale AI Pilots

9.3 Identifying Pilot Opportunities in Departments

9.4 Stakeholder Alignment: IT, Compliance, Frontline Staff

9.5 Building Organizational Readiness

9.6 Step-by-Step Guide: No-Code AI for Medical Claim Denial Prediction Using Relevance AI

Additional Module

AI Agent Module - AI+ Healthcare Administrator Practitioner

10.1 What Are AI Agents?

10.2 How Does an AI Agent Work in Healthcare?

10.3 Core Characteristics of AI Agents

10.4 Importance of AI Agents in Healthcare Administration

10.5 Significance for Patient Experience & Hospital Outcomes

10.6 Types of AI Agents?

10.7 Applications and Trends in Healthcare

10.8 Case Study: Johns Hopkins Health System

10.9 Hands-On Lab: Build an AI Agent: Patient Flow Bottleneck Detection Agent (Zapier)

Certification Outcome

Upon completing the AI + Healthcare Administrator Practitioner course, learners will have developed the expertise to lead AI initiatives within healthcare settings. They will be equipped to implement AI tools for improving operational efficiency, patient care, and resource management. Learners will gain skills in data-driven decision-making, managing AI-driven projects, and navigating the complexities of healthcare systems. They will also understand ethical implications, regulatory requirements, and the role of AI in enhancing healthcare outcomes. This certification prepares learners to drive AI adoption and innovation, enabling them to lead digital transformation efforts in healthcare administration effectively.



Market Insight

The healthcare industry is increasingly adopting AI to optimize operations, improve patient outcomes, and reduce costs. With AI's growing role in diagnostics, resource management, and administrative tasks, there is a rising demand for skilled administrators who can lead AI-driven transformations.



Value Proposition

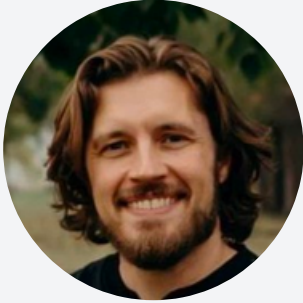
The AI+ Healthcare Administrator Practitioner certification equips professionals with the knowledge to manage AI technologies in healthcare settings. It covers AI applications in patient care, operations, and decision-making, preparing learners to lead digital transformation and improve healthcare delivery through strategic AI integration.



Additional Features

This certification offers practical, hands-on experience with AI tools, case studies from leading healthcare providers, and expert-led training in regulatory compliance, data privacy, and AI governance. Learners will gain the skills needed to oversee AI initiatives and drive change in healthcare organizations.

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)

The logo for AI CERTs features the word "AI" in a bold, yellow, sans-serif font. The letter "I" is stylized with three horizontal lines extending from its right side, resembling a circuit board or a neural network. To the right of "AI" is the word "CERTs" in a white, bold, sans-serif font. A registered trademark symbol (®) is positioned at the top right of the "s".

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