AI+ Pharma

Category: AI, Data & Analytics | **Vendor:** AI Certs

Duration: 1.00 hours (1 days) **0.8 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	vILT
Certification:	AI+ Pharma
Related Exam:	AI-PHA

Course Overview

AI+ Pharma™ uncovers how artificial intelligence is transforming every stage of the pharmaceutical lifecycle — from discovery and formulation to clinical operations and commercial decision-making. The course highlights how AI accelerates molecule screening, streamlines trial design, enhances regulatory workflows, and improves patient-centric strategies. Learners explore real-world applications such as digital biomarkers, predictive modeling, automation in R&D, and AI-powered pharmacovigilance.

About This Course

AI+ Pharma™ uncovers how artificial intelligence is transforming every stage of the pharmaceutical lifecycle — from discovery and formulation to clinical operations and commercial decision-making. The course highlights how AI accelerates molecule screening, streamlines trial design, enhances regulatory workflows, and improves patient-centric strategies. Learners explore real-world applications such as digital biomarkers, predictive modeling, automation in R&D, and AI-powered pharmacovigilance.

Prerequisites & Entry Requirements

General Prerequisites:

Basic Biology Knowledge – Understand fundamental human biology concepts

Pharmaceutical Fundamentals – Familiarity with drug development and approval processes

AI & ML Basics – Grasp core principles of artificial intelligence

Data Analytics Skills – Ability to interpret and analyze datasets

Ethical Awareness – Understand ethics in AI-driven healthcare applications

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Understand AI applications across drug discovery, development, manufacturing, and commercialization

Analyze how machine learning models support molecule prediction, target identification, and formulation

Explore AI-driven innovations in clinical trial design, patient recruitment, and real-time analytics

Examine regulatory compliance, ethical considerations, and risk mitigation strategies in AI-enabled pharma

Apply AI tools and workflows to solve practical pharmaceutical challenges and optimize decision-making

Detailed Course Outline

AI Foundations for Pharma

AI and Machine Learning Basics

AI Algorithms and Models

Use Case: Predictive Modeling for Adverse Drug Reactions and Drug-Drug Interactions Using Historical Patient Datasets

Hands-on: Build Predictive Models Using No-Code Tool (Teachable Machine)

AI in Drug Discovery and Development

AI in Molecular Drug Design

AI in Drug Repurposing

Use Case: AI-Driven Drug Repurposing Successes (COVID-19 Therapeutics)

Hands-On: Practical AI-Driven Molecular Design and Drug Repurposing Using Orange Data Mining Tool

Hands-On 2: Exploring Disease-Drug Associations with EpiGraphDB

Clinical Trials Optimization with AI

AI-Enhanced Patient Recruitment

Clinical Data Management and Monitoring

Use Case: Pfizer’s AI-Driven Analytics for Optimizing Clinical Trials

Hands-on: Implementing Clinical Data Analytics Using No-Code Platforms (KNIME)

Precision Medicine and Genomics

Personalized Treatment Strategies

Biomarker Discovery

Case Study: AI-Assisted Biomarker Discovery and Validation in Cancer Treatments

Hands-on: Hands-On Genomic Analysis – Exploring AI-Driven Genomic Interpretation Using CBioPortal

Regulatory and Ethical AI in Pharma

Ethical Considerations and AI Governance

AI Compliance and Regulatory Frameworks

Case Study: Analyzing Ethical and Regulatory Challenges Encountered in Major AI-Driven Pharma Initiatives

Hands-on: Developing AI Governance Strategies Based on Ethical Frameworks

Hands-on: Literature Mining with LitVar 2.0

Implementing AI in Pharma Projects

AI Project Management

Evaluating AI Tools and ROI

Hands-On: Practical AI Project Management Using Airtable for Tracking, Collaboration, and Management

Future Trends and Sustainability in Pharma AI

Emerging AI Technologies in Pharma

AI for Sustainable Healthcare

Case Study: Analysis of Sustainability Initiatives Driven by AI in Pharmaceutical Industry Leaders

Hands-on: Scenario Planning and Predictive Analytics Using Dashboards for Future-Focused Decision Making

Capstone Project

Capstone Project 1: Predictive Modeling for Adverse Drug Reactions in Polypharmacy

Capstone Project 2: AI-Enhanced Clinical Trial Recruitment and Retention

Capstone Project 3: AI-Powered Drug Design for Rare Diseases

Capstone Project Evaluation Scheme

□□ Certification Path

AI+ Pharma

Exam: AI-PHA

Frequently Asked Questions

Q: What delivery options are available for AI+ Pharma?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI+ Pharma course helps prepare you for the AI+ Pharma certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-PHA official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day AI+ Pharma course provides up to 0.8 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI+ Pharma training?

The training takes place over 1 day(s), with each day lasting approximately 1.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI+ Pharma?

Yes, we provide corporate training, dedicated training, and closed classes for AI+ Pharma. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI+ Pharma, AI Certs, vILT

Q: Why choose Nexus Human for AI+ Pharma?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI+ Pharma training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 14/11/2026.