

Training Course on Emerging Technologies for Library Services

Professional Development Training Course Outline

Category	Library Institute	Duration	5 Days
Base Fee	\$1,500 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

The library landscape is undergoing a profound transformation, driven by the rapid evolution of **emerging technologies**. Libraries are no longer mere repositories of physical books; they are dynamic, **innovative hubs** of information, learning, and community engagement. To remain relevant and effectively serve diverse user needs in the **digital age**, library professionals must embrace and master these cutting-edge advancements. Training Course on Emerging Technologies for Library Services provides librarians and information specialists with the essential knowledge and practical skills to navigate this exciting new frontier, ensuring their institutions are at the forefront of **digital innovation** and **future-proof library services**.

This program delves into the practical applications of **disruptive technologies** like Artificial Intelligence, Blockchain, Virtual Reality, and the Internet of Things, demonstrating how they can revolutionize core library functions, enhance user experience, and create new opportunities for engagement. Participants will gain actionable insights and develop strategic frameworks to implement these technologies, fostering a culture of **technological literacy** and **service excellence** within their libraries. The focus is on empowering library professionals to become **digital leaders** and agents of change, transforming their institutions into truly **smart libraries** ready for the challenges and opportunities of tomorrow.

Programme Curriculum

Training Course on Emerging Technologies for Library Services

Introduction

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5 days

Course Objectives

1. Gain a comprehensive overview of **AI, Blockchain, IoT, VR/AR, data analytics**, and other **disruptive technologies** impacting libraries.
2. Learn how **Artificial Intelligence** can enhance **information retrieval, cataloging, recommendation systems**, and **user personalization**.
3. Discover applications of **distributed ledger technology** for **digital preservation, intellectual property management**, and **resource sharing**.
4. Acquire skills to create and manage **virtual reality** and **augmented reality** content for **digital collections, exhibits**, and **educational programs**.
5. Understand how the **Internet of Things** can optimize **space utilization, asset tracking**, and **environmental monitoring** in libraries.
6. Develop proficiency in collecting, analyzing, and visualizing **library usage data** to improve **collection development** and **user services**.
7. Learn best practices and technologies for ensuring the **long-term accessibility** and integrity of **digital assets**.
8. Design and deliver programs that empower users with essential **digital citizenship** and **technology skills**.
9. Explore the intersection of **digital humanities** and library services, fostering collaborative research and engaging **digital scholarship**.
10. Address critical issues related to **data privacy, algorithmic bias**, and **digital rights** in the context of emerging technologies.
11. Create strategic plans for integrating emerging technologies to meet evolving user needs and maintain **library relevance**.
12. Encourage proactive exploration and adoption of new technologies within the library team.
13. Learn to secure resources and collaborate with external stakeholders for technology implementation.

Organizational Benefits

- Offer personalized, intuitive, and engaging services through AI-powered tools and immersive technologies.

- Streamline workflows, automate tasks, and optimize resource allocation using IoT and data analytics.
- Equip the library with the capabilities to adapt to rapid technological advancements and remain a vital community hub.
- Empower patrons with essential digital skills, fostering a digitally inclusive society.
- Ensure the long-term accessibility and integrity of invaluable digital collections.
- Attract new users and collaborations through innovative technology-driven programs and services.
- Position the library as a leader in **digital innovation** and a forward-thinking institution.
- Utilize insights from data analytics to make strategic choices regarding collections, services, and resource allocation.

Target Audience

1. Librarians and Library Staff
2. Information Professionals
3. Library Directors and Managers.
4. Archivists and Curators
5. IT Professionals in Libraries.
6. Academics and Researchers in LIS.
7. Educators and Trainers in LIS
8. Anyone interested in the intersection of technology and information access.

Course Outline

Module 1: The AI Revolution in Libraries

- Introduction to Artificial Intelligence (AI) and Machine Learning (ML) fundamentals.
- AI-powered **information retrieval** and enhanced search capabilities.
- **Personalized user recommendations** and adaptive interfaces.
- Automated **cataloging** and metadata generation.
- **Case Study:** *How North Carolina State University Libraries use AI-driven tools for discovery and personalized user experiences.*

Module 2: Blockchain and Decentralized Library Ecosystems

- Understanding **Blockchain technology** and its core principles.
- **Digital rights management** and secure access to digital content.
- Blockchain for **interlibrary loan systems** and resource sharing.
- Ensuring **digital preservation** and provenance of born-digital assets.
- **Case Study:** *Exploring projects like the Media Library of the Future which investigates blockchain for tracking digital content and rights.*

Module 3: Immersive Experiences: VR, AR, and Mixed Reality

- Introduction to **Virtual Reality (VR)**, **Augmented Reality (AR)**, and **Mixed Reality (MR)**.
- Creating **immersive digital exhibits** and virtual tours of library spaces.
- VR/AR applications for **educational programs** and interactive learning.
- **3D modeling** and visualization of historical artifacts and rare collections.
- **Case Study:** *The National Library of Finland's use of VR to recreate historical library spaces and offer virtual cultural experiences.*

Module 4: The Internet of Things (IoT) for Smart Libraries

- Fundamentals of **IoT devices** and network architecture.
- **Smart shelving systems** and automated inventory management.
- **Environmental monitoring** (temperature, humidity) for collection preservation.
- **Location-based services** and personalized guidance within the library space.
- **Case Study:** *Implementing IoT sensors at Singapore's National Library Board for optimized space utilization and energy management.*

Module 5: Data Analytics and Predictive Modeling for Libraries

- Introduction to **data analytics** principles and tools for libraries.
- Analyzing **user behavior** and circulation data for **collection development**.
- **Predictive analytics** for anticipating user needs and service demands.
- **Data visualization** techniques for communicating insights effectively.
- **Case Study:** *How the University of Huddersfield Library uses data analytics to inform acquisition decisions and improve resource accessibility.*

Module 6: Cybersecurity and Data Privacy in the Digital Library

- Understanding **cybersecurity threats** and best practices for libraries.
- Protecting **patron data** and ensuring **data privacy** compliance (e.g., GDPR).
- Secure management of **digital collections** and library systems.
- Developing **incident response plans** and disaster recovery strategies.
- **Case Study:** *Examining a library's response to a data breach and the implementation of enhanced cybersecurity protocols.*

Module 7: Digital Humanities and Library Collaboration

- Introduction to the **Digital Humanities (DH)** field and its relevance to libraries.
- Libraries as partners in **digital scholarship** and research.
- Tools and platforms for **digital text analysis** and **data visualization** in DH.
- Creating and managing **digital exhibits** and online archives for DH projects.
- **Case Study:** *The New York Public Library's engagement with DH projects, providing access to digitized collections and expertise.*

Module 8: Strategic Planning for Future-Proof Libraries

- Assessing the **technological readiness** of your library.
- Developing a **strategic roadmap** for technology adoption and implementation.
- **Change management** strategies for integrating new technologies.
- Building a culture of **innovation** and continuous learning within the library.
- **Case Study:** *Analyzing the strategic planning process of a leading academic library that successfully integrated multiple emerging technologies.*

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.

- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

- The participant must be conversant with English.
- Upon completion of training the participant will be issued with an Authorized Training Certificate
- Course duration is flexible and the contents can be modified to fit any number of days.
- The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- One-year post-training support Consultation and Coaching provided after the course.
- Payment should be done at least a week before commence of the training, to FINESKILL TRAINING CENTER account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	11 Sep 2026	Online	\$1,100
14 Sep 2026	18 Sep 2026	Online	\$1,100
21 Sep 2026	25 Sep 2026	Online	\$1,100

Start Date	End Date	Location	Price
28 Sep 2026	02 Oct 2026	Online	\$1,100
05 Oct 2026	09 Oct 2026	Online	\$1,100
12 Oct 2026	16 Oct 2026	Online	\$1,100
19 Oct 2026	23 Oct 2026	Online	\$1,100
26 Oct 2026	30 Oct 2026	Online	\$1,100

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