BLACKBIRD FOR TRAINING

Technical Library Management & Modern Information Services

23 – 27 August 2027
Boston, Massachusetts (USA)



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Introduction

Technical libraries are central to research, engineering, innovation, and organizational knowledge management.

With rapid advancements in technology, library professionals need to adapt to digital resources, knowledge management systems, and advanced information retrieval tools.

This course equips participants with practical skills in technical library operations, digital cataloguing, classification systems, electronic resource management, and emerging technologies, including AI-powered search tools and digital repositories.

Participants will gain the expertise to manage modern technical libraries efficiently, enhance research support, and leverage library management systems and databases to maximize organizational knowledge.

Course Objectives

By the end of this course, participants will be able to:

- Understand the strategic role of technical libraries within organizational knowledge ecosystems.
- Apply modern cataloguing and classification standards effectively.
- Manage digital and electronic information resources efficiently.
- Utilize library management systems and databases to optimize operations.
- Improve information retrieval and research support services.
- Implement digital archiving and document management practices.
- Integrate knowledge management concepts in technical library environments.
- Leverage emerging technologies, including AI tools, in library operations.
- Enhance user services and stakeholder engagement.



Course Outlines

Day 1 — Fundamentals of Technical Libraries & Information Management

- Types of technical libraries: engineering, medical, legal, corporate.
- Role of technical libraries in research, development, and innovation.
- Information lifecycle management for technical resources.
- Collection development strategies.
- Policies, standards, and governance in specialized libraries.
- Copyright and intellectual property considerations.
- Practical Activities:
- Assessing current library services.
- Designing a technical collection development policy.

Day 2 — Cataloguing, Classification & Metadata Standards

- Cataloguing principles and international standards.
- Classification systems: DDC, UDC, LC Classification.
- Metadata standards: MARC, Dublin Core.
- Indexing and abstracting technical documents.
- Subject headings and taxonomy development.
- Authority control and database consistency.
- Practical Activities:
- Hands-on cataloguing exercises.
- Metadata creation workshop.

Day 3 — Digital Libraries & Electronic Resource Management

- Digital library concepts and architecture.
- Managing e-books, journals, databases, and subscriptions.
- Institutional repositories and knowledge portals.
- Library automation systems ILS.
- Digital preservation and archiving strategies.
- Open access resources and licensing.
- Practical Activities:
- Evaluating digital library platforms.
- Creating a digital resource management plan.



Day 4 — Information Retrieval, Research Support & Knowledge Management

- Advanced search strategies and database navigation.
- Supporting researchers and technical professionals.
- Reference services in specialized environments.
- Knowledge management principles and tools.
- Document control and version management.
- Data organization and information analytics.
- Practical Activities:
- Research query simulation exercises.
- Knowledge mapping workshop.

Day 5 — Emerging Technologies & Future of Technical Libraries

- Artificial intelligence in libraries.
- Automation and smart information systems.
- Data analytics for library decision-making.
- User experience and service innovation.
- Cybersecurity considerations in digital libraries.
- Future trends in technical information services.
- Practical Activities:
- AI tools demonstration for librarians.
- Developing a modernization roadmap for participants' libraries.

Why Attend This Course: Wins & Losses!

- Gain comprehensive knowledge of technical libraries and information management systems.
- Learn to manage digital resources and electronic collections efficiently.
- Enhance information retrieval and research support services.
- Apply knowledge management concepts for organizational benefit.
- Utilize AI-powered search tools and emerging technologies.
- Implement digital archiving and document management best practices.
- Improve library services for stakeholders and users.
- Develop strategies for library modernization and innovation.
- Understand challenges in traditional library management and digital transition.
- Acquire practical skills applicable to multiple technical sectors.

Conclusion

This course provides essential skills for managing modern technical libraries and information systems.

Participants will gain practical expertise in digital cataloguing, classification standards, library management systems, and emerging technologies such as AI tools.

By the end of the program, attendees will be equipped to optimize library operations, enhance research support, and implement knowledge management practices effectively.



The course prepares library professionals to meet the demands of digital transformation, ensuring operational efficiency, improved user services, and a sustainable knowledge management framework.

