Introduction to ICT Infrastructure Management Training Course

Professional Development Training Course Outline

Category	Information Technology	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s fast-evolving technological landscape, managing ICT (Information and Communication Technology) infrastructure has become a critical part of organizational success. Efficient ICT infrastructure ensures seamless communication, storage, security, and access to resources across business systems. Introduction to ICT Infrastructure Management Training Course is designed to equip professionals with the necessary skills to manage, optimize, and secure technology infrastructures. The program focuses on key aspects such as network design, server management, cloud computing, and disaster recovery. With a growing demand for experts in these fields, the course prepares participants to meet the challenges posed by complex and dynamic technological environments.

The rise of digital transformation, cloud-based services, and the growing reliance on data-driven decision-making has placed more responsibility on IT infrastructure managers. As businesses and organizations embrace innovative technologies, there is an increased need for effective management of servers, networks, data storage, security systems, and overall infrastructure. This course provides a comprehensive understanding of ICT infrastructure and emphasizes its role in supporting the day-to-day operations and growth of businesses. Participants will learn about modern technologies and strategies to build resilient, scalable, and efficient infrastructures, ultimately driving business performance and supporting the demands of the digital economy.

Programme Curriculum

Introduction to ICT Infrastructure Management Training Course

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Training Objectives

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

1. Understand the components and architecture of ICT infrastructure.
2. Manage and optimize network systems for performance and security.
3. Design and implement server infrastructures for business applications.
4. Implement cloud computing solutions for scalability and flexibility.
5. Develop effective disaster recovery and business continuity plans.
6. Ensure data security and compliance in ICT infrastructure.
7. Integrate virtualization technologies to optimize resource usage.
8. Understand emerging technologies and their impact on infrastructure.
9. Evaluate and select the right infrastructure solutions for business needs.
10. Enhance system performance and reliability through monitoring tools.
11. Manage IT assets and resources in alignment with business goals.
12. Troubleshoot and resolve common infrastructure issues.
13. Stay current with industry trends and best practices in infrastructure management.

Target Audience:

This course is designed for professionals seeking to enhance their knowledge in ICT infrastructure management. It is ideal for:

1. IT Managers looking to strengthen their understanding of infrastructure management.
2. Network Engineers aiming to deepen their skills in networking and security.

3. Cloud Solutions Architects interested in mastering cloud infrastructure and services.
4. Data Administrators seeking to optimize data storage and recovery strategies.
5. System Administrators working to improve server infrastructure management.
6. Disaster Recovery Specialists wanting to learn best practices for business continuity.
7. Technology Consultants focused on providing infrastructure solutions to clients.
8. IT Support Professionals aiming to enhance their troubleshooting and management capabilities.

Course Duration:

- 5 days

Course Modules

Module 1: Introduction to ICT Infrastructure

- Overview of ICT infrastructure components
- Key roles in infrastructure management
- Types of networks and topologies
- Understanding server types and their use cases
- Key trends in infrastructure management (cloud, IoT, etc.)

Module 2: Networking and Security Management

- Fundamentals of networking protocols
- Building secure and scalable networks
- Firewall and security measures
- VPN and secure communication methods
- Network monitoring and performance optimization

Module 3: Server Infrastructure and Virtualization

- Types of servers and their functions
- Server deployment and management
- Virtualization technologies and benefits
- Hypervisors and virtual machines
- Managing server resources and performance

Module 4: Cloud Infrastructure and Services

- Introduction to cloud computing models (IaaS, PaaS, SaaS)
- Cloud service providers and solutions
- Migrating to the cloud: best practices
- Hybrid and multi-cloud environments
- Managing cloud resources and security

Module 5: Data Storage and Management

- Data storage technologies and types (SAN, NAS, DAS)
- Managing databases and storage systems
- Data backup and recovery strategies
- Cloud-based data storage solutions
- Ensuring data availability and redundancy

Module 6: Disaster Recovery and Business Continuity

- Importance of disaster recovery planning
- Business continuity management strategies
- Designing resilient IT systems
- Backup and restore methods
- Real-world disaster recovery scenarios

Module 7: ICT Infrastructure Monitoring and Management

- Tools and techniques for infrastructure monitoring
- Performance metrics and KPIs
- Troubleshooting common infrastructure issues
- Network and server health checks
- Automating infrastructure management

Module 8: Emerging Trends and Future of ICT Infrastructure

- Role of AI and machine learning in infrastructure
- Edge computing and its impact
- 5G networks and infrastructure
- Internet of Things (IoT) integration
- Preparing for future technological advancements

Training Methodology

- **Interactive Learning**: The course encourages active participation through practical exercises and hands-on activities to deepen understanding.
- **Theoretical Knowledge**: Core concepts in ICT infrastructure management are taught to provide a strong foundational understanding of the subject.
- **Case Studies and Real-World Scenarios**: Participants analyze real-life situations to apply theoretical knowledge and solve practical challenges.
- **Group Discussions**: Collaborative discussions foster peer learning and help participants share insights on real-world issues.
- **Role-Playing and Problem-Solving**: These activities allow participants to practice decision-making and leadership skills in simulated environments.
- **Instructional Videos**: Pre-recorded videos deliver concise, engaging content on critical topics to reinforce learning.
- **Live Webinars**: Live sessions with instructors provide an opportunity for direct interaction, Q&A, and real-time learning.

- **Self-Paced Online Modules**: Flexible online modules cater to different learning styles, allowing participants to progress at their own pace.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org 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

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. 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
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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