Training Course on Digital OSH (Occupational Safety and Health) Management Systems and Software

Professional Development Training Course Outline

Category	Occupational Health	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The rapid digital transformation in the workplace has ushered in a new era of Occupational Safety and Health (OSH) management. The integration of digital OSH management systems and intelligent safety software has proven to enhance workplace safety, improve compliance, and streamline health monitoring. Training Course on Digital OSH (Occupational Safety and Health) Management Systems and Software is designed to equip professionals with the knowledge and tools required to manage and implement modern OSH solutions using cloud-based platforms, IoT, AI-driven analytics, and mobile safety applications.

As organizations strive to meet international safety standards like ISO 45001 and leverage data for predictive safety, understanding digital OSH frameworks becomes imperative. This course explores best practices, digital compliance tracking, and implementation of automated risk assessment tools through case-based learning, offering a practical and strategic approach to digital occupational safety.

Programme Curriculum

Training Course on Digital OSH (Occupational Safety and Health) Management Systems and Software

Introduction

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Course Objectives

1. Understand the fundamentals of Digital OSH Management Systems.
2. Implement cloud-based health and safety platforms for compliance.
3. Use AI and machine learning for incident prediction and prevention.
4. Analyze workplace data through real-time safety dashboards.
5. Apply IoT-enabled monitoring systems for hazard detection.
6. Ensure compliance with ISO 45001 and OSHA digital standards.
7. Utilize mobile safety apps for workforce engagement.
8. Integrate automated risk assessments into safety operations.
9. Learn digital strategies for emergency response planning.
10. Develop reports with data-driven decision-making tools.
11. Enhance safety culture through digital training platforms.
12. Explore cybersecurity and data protection in OSH systems.
13. Design a digital transformation roadmap for OSH.

Target Audience

1. OSH Managers and Coordinators
2. Safety and Compliance Officers
3. Human Resource Professionals
4. Facility and Operations Managers
5. IT & Digital Transformation Officers
6. Government Safety Inspectors
7. EHS (Environment, Health & Safety) Consultants
8. Corporate Trainers and Learning Officers

Course Duration: 10 days

Course Modules

Module 1: Introduction to Digital OSH Management Systems

- Evolution of OSH in the digital age
- Components of a digital safety ecosystem
- Benefits and limitations of digital platforms
- Standards and legal frameworks (ISO 45001, OSHA)
- Digital readiness assessment
- **Case Study**: Digital transformation in a global manufacturing firm

Module 2: Cloud-Based OSH Platforms

- Introduction to cloud computing in OSH
- Choosing the right OSH SaaS provider
- Data accessibility and real-time syncing
- Licensing and subscription models
- Back-up and recovery planning
- **Case Study**: Cloud OSH implementation in a logistics company

Module 3: AI and Predictive Analytics for Safety

- Role of AI in accident prediction
- Machine learning algorithms for hazard forecasting
- Safety trend detection
- Ethical use of AI in worker safety
- Data accuracy and validation
- **Case Study**: AI-based incident prediction in construction

Module 4: Real-Time Safety Dashboards

- Building customized safety dashboards
- Key performance indicators (KPIs) for OSH
- Data integration from various sources
- Alert systems and threshold-based warnings
- Visualization tools and reporting
- **Case Study**: Dashboard deployment in an oil refinery

Module 5: IoT Applications in OSH

- Sensors for temperature, gas, noise, and motion
- Smart PPE and wearables
- Data flow and network protocols
- Maintenance of IoT infrastructure
- Ensuring data privacy in connected systems
- **Case Study**: IoT in underground mining safety

Module 6: Mobile OSH Applications

- Overview of mobile tools for field safety
- Incident reporting apps
- Worker check-in and location tracking
- Daily hazard checklists
- Offline functionality and syncing
- **Case Study**: Mobile OSH in a nationwide utility company

Module 7: Digital Risk Assessment Tools

- Framework for automated risk analysis
- Digital hazard identification workflows
- Prioritization and control measures
- Collaborative risk review
- Integration with audit tools
- **Case Study**: Risk software in a pharmaceutical firm

Module 8: Compliance and Auditing Software

- Digital audit trail creation
- Compliance gap analysis
- Certification tracking and renewal alerts
- Custom audit templates
- Third-party audit integration
- **Case Study**: Digital auditing in a retail chain

Module 9: Safety Training and E-Learning Platforms

- LMS integration for OSH training
- Virtual simulations and VR/AR use

- Progress tracking and certifications
- Role-based content delivery
- Content updates and compliance syncing
- **Case Study**: Digital training in an aerospace company

Module 10: Emergency Response Digitization

- Digital emergency planning
- Interactive response procedures
- Real-time communication tools
- Evacuation and rescue tracking
- Post-incident analysis tools
- **Case Study**: Emergency software used during a fire outbreak

Module 11: Incident Management Software

- Logging, investigation, and tracking features
- Root cause analysis templates
- Automatic notifications and corrective actions
- Integration with HR/legal systems
- Data retention and compliance
- **Case Study**: Incident platform in a transportation firm

Module 12: Worker Engagement via Digital Tools

- Feedback systems and mobile surveys
- Recognition platforms
- Behavioral safety tools
- Gamification in safety compliance
- Anonymous reporting channels
- **Case Study**: Enhancing engagement in a tech company

Module 13: Data Security and Cyber Risk in OSH

- Basics of cybersecurity in OSH software
- Risk assessment for digital tools
- Encryption and access control
- Compliance with GDPR/CCPA
- Security audits and penetration tests
- **Case Study**: Cyber breach in a safety software and lessons learned

Module 14: Metrics, KPIs, and Reporting

- Selecting performance indicators
- Data aggregation from multiple sources
- Automated report generation
- Benchmarking and peer comparisons
- Custom reporting templates
- **Case Study**: Reporting transformation in a manufacturing conglomerate

Module 15: Designing a Digital OSH Transformation Strategy

- Assessing current OSH maturity
- Phased digital implementation roadmap
- Budgeting and resource allocation
- Change management and workforce alignment

- Sustainability and continuous improvement
- **Case Study**: Full digital transition plan in a Fortune 500 company

Training Methodology

- Interactive presentations using real-world digital OSH tools
- Hands-on simulation with safety dashboards and apps
- Group activities and scenario planning
- Expert guest lectures from safety tech leaders
- Case study analysis for practical understanding
- Final project: Build a digital OSH transformation plan

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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