BLACKBIRD FOR TRAINING

Safety and Security Auditor for Green Compliance Certification



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Introduction

Safety and security are essential components of green building compliance, supporting the protection of occupants, assets, building operations, and critical functions. Effective auditing requires a structured approach to evaluate fire and life safety, emergency preparedness, physical security, vulnerability, access control, and relevant cybersecurity performance.

This course provides participants with the knowledge and practical skills required to conduct Safety and Security audits across different types of buildings. It addresses applicable fire, egress, alarm, suppression, electrical and emergency-planning requirements, together with security threat and vulnerability assessment, protective security, vulnerable occupants, access control, and confidential reporting.

Participants will also learn how to apply key inspection and testing tools, including electrical test instruments, thermal cameras, emergency-light lux meters, fire-system test records, pressure gauges, gas detectors, inspection certificates, and functional test equipment. The course also introduces the assessment of cybersecurity performance as part of the broader building safety and security audit framework.

Course Objectives

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



- Understand the fundamentals of building safety and security auditing.
- Understand the relationship between safety, security, sustainability, and green compliance.
- Apply structured auditing techniques to different types of buildings.
- Assess fire and life-safety requirements.
- Evaluate means of egress and emergency evacuation arrangements.
- Review fire alarm, detection, and suppression systems.
- Assess relevant electrical safety requirements.
- Evaluate emergency planning and preparedness.
- Conduct threat and vulnerability assessments.
- Assess protective security measures and security controls.
- Consider the needs of vulnerable occupants during safety and security assessments.
- Evaluate access-control arrangements.
- Apply principles of confidential safety and security reporting.
- Identify common building safety and security risks.
- Apply electrical test instruments during inspections.
- Use thermal cameras to identify potential safety issues.
- Apply emergency-light lux meters to assess emergency lighting.
- Review fire-system test records, pressure gauges, inspection certificates, and functional test equipment.
- Understand the role of cybersecurity performance in building security.
- Interpret audit findings and develop practical corrective actions.
- Prepare professional Safety and Security audit reports supporting green compliance.

Course Outlines

Day 1: Safety and Security Auditing Fundamentals and Green Compliance

- Introduction to building safety and security auditing.
- Role of safety and security in green building compliance.
- Key principles of risk-based auditing.
- Safety and security audit scope and objectives.
- Building types and their specific safety requirements.
- Identification of safety and security hazards.
- Audit planning and preparation.
- Building walkthrough and inspection techniques.
- Fire and life-safety fundamentals.
- Applicable fire safety requirements.
- Occupant protection and emergency preparedness.
- Basic emergency planning principles.
- Safety documentation and compliance records.
- Introduction to audit evidence and reporting.
- Practical building safety and security audit case study.



Day 2: Fire and Life-Safety, Electrical Safety and Emergency Planning

- Fire prevention and fire-risk considerations.
- Means of egress and evacuation routes.
- Exit accessibility and emergency exits.
- Fire alarm and detection systems.
- Fire suppression systems and inspection requirements.
- Fire-system testing and maintenance records.
- Emergency lighting and signage.
- Use of emergency-light lux meters.
- Electrical safety requirements and inspection principles.
- Application of electrical test instruments.
- Thermal camera applications in safety inspections.
- Emergency response and evacuation planning.
- Emergency procedures and occupant communication.
- Inspection certificates and functional test records.
- Practical fire and life-safety audit exercise.

Day 3: Security, Threat Assessment and Access Control

- Fundamentals of building security auditing.
- Threat identification and vulnerability assessment.
- Security risk assessment methodology.
- Identification of critical assets and sensitive areas.
- Protective security measures.
- Physical security controls.
- Access-control systems and procedures.
- Visitor management and authorization controls.
- Security considerations for vulnerable occupants.
- Confidential reporting and protection of sensitive information.
- Security inspection and evidence collection.
- Identification of security gaps and weaknesses.
- Security incident preparedness and response.
- Development of corrective and preventive actions.
- Practical threat and vulnerability assessment exercise.



Day 4: Safety and Security Testing, Inspection and Cybersecurity Performance

- Safety and security testing principles.
- Selection and application of inspection instruments.
- Electrical test instruments and field applications.
- Thermal camera inspection techniques.
- Emergency-light lux measurement.
- Pressure gauges and system-pressure verification.
- Gas detectors and gas-related safety checks.
- Fire-system test records and functional testing.
- Inspection certificates and equipment documentation.
- Functional test equipment and verification procedures.
- Instrument calibration and measurement reliability.
- Introduction to building cybersecurity performance.
- Cybersecurity risks affecting building systems and security.
- Review of access-control, monitoring, and connected building-system risks.
- Practical integrated safety, security, and cybersecurity audit exercise.

Day 5: Audit Findings, Corrective Actions and Green Compliance Reporting

- Review of Safety and Security audit findings.
- Classification of safety and security deficiencies.
- Risk ranking and prioritization.
- Evaluation of corrective actions.
- Emergency preparedness improvement strategies.
- Fire and life-safety improvement opportunities.
- Physical security and access-control improvements.
- Cybersecurity performance improvement considerations.
- Integration of safety and security into green compliance.
- Development of corrective and preventive action plans.
- Audit evidence and supporting documentation.
- Preparation of professional audit reports.
- Communicating findings to management and stakeholders.
- Final audit case study and presentation.
- Development of a practical Safety and Security compliance roadmap.



Why Attend this Course: Wins & Losses!

- Develop practical Safety and Security auditing skills.
- Understand safety and security requirements within green compliance.
- Improve knowledge of fire and life-safety auditing.
- Strengthen skills in assessing egress and emergency preparedness.
- Learn how to review fire alarm and suppression systems.
- Improve electrical safety inspection capabilities.
- Learn practical use of thermal cameras and emergency-light lux meters.
- Develop skills in reviewing fire-system test records and inspection certificates.
- Understand threat and vulnerability assessment techniques.
- Improve physical security and access-control assessment.
- Address the needs of vulnerable building occupants.
- Strengthen confidential reporting practices.
- Understand the role of cybersecurity performance in building security.
- Develop practical corrective-action and risk-reduction strategies.
- Improve professional Safety and Security audit reporting.

Frequently Asked Questions

1. Who should attend this course?

The course is suitable for safety professionals, security personnel, facility and building managers, auditors, engineers, compliance professionals, HSE personnel, and professionals responsible for green building certification.

2. Is previous Safety and Security auditing experience required?

No. The course provides a structured introduction to Safety and Security auditing while also developing practical skills for participants with existing experience.

3. Does the course cover fire and life-safety requirements?

Yes. It covers fire safety, egress, alarms, suppression, electrical safety, emergency lighting, and emergency planning.

4. Will participants learn how to use inspection and testing instruments?

Yes. The course covers electrical test instruments, thermal cameras, emergency-light lux meters, pressure gauges, gas detectors, and functional test equipment, together with relevant records and certificates.

5. Does the course include cybersecurity?

Yes. Cybersecurity performance is addressed as part of the building security audit framework, particularly in relation to connected building systems, access control, monitoring, and security risk.



6. Can this course be customized for an organization?

Yes. The course can be customized and delivered in-house to address specific building types, organizational requirements, safety and security risks, and green compliance objectives.

Conclusion

This course provides participants with a structured framework for auditing Safety and Security performance in different types of buildings. It combines fire and life-safety, emergency preparedness, physical security, vulnerability assessment, access control, and cybersecurity performance within an integrated audit approach.

Through practical inspection methods and the application of relevant testing instruments, participants develop the ability to collect reliable audit evidence, identify deficiencies, evaluate risks, and recommend appropriate corrective actions.

By combining Safety and Security auditing techniques with practical testing, risk assessment, documentation, and professional reporting, the course supports organizations in improving occupant protection, building resilience, operational safety, security performance, and compliance with green building requirements.

