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COURSE BROCHURE

Advanced Integrated HSSE Principles and Practices Training Course

4 – 15 January 2027
Singapore

Advanced Integrated HSSE Principles and Practices Training Course

Ref: 322_10933 **Date:** 4 – 15 January 2027 **Location:** Singapore **Fees:** 12000 GBP

Integrated HSSE Principles and Practices are the focus of this 2-week advanced training course for HSSE coordinators, security and safety officers and asset managers, who leave with an integrated HSSE plan uniting risk registers, permits, audits and reporting for one asset. Separate safety, security and environmental silos duplicate effort and leave gaps where threats overlap, so organisations increasingly want one coherent approach. Jupiter Prime Training delivers this course for HSSE practitioners.

Why Integrated HSSE Principles and Practices Matter Now

Three pressures push organisations towards integrated health, safety, security and environment practice: assets in remote or exposed locations where security threats and process hazards interact, lenders and partners asking for one consolidated view of non-financial risk, and leaner teams expected to cover all four disciplines. Integrated practice removes duplicated audits and conflicting permits and reveals combined scenarios such as sabotage leading to a release; fragmented practice leaves each function blind to the others. The course rests on ISO 45001 Occupational Health and Safety Management Systems and ISO 14001 Environmental Management Systems, with security risk handled through threat, vulnerability and consequence methods aligned to the same structure.

Who Gains Most from Integrated HSSE Principles and Practices

- Coordinators who maintain the combined HSSE risk register and reporting for an asset or region
- Security officers who assess threats to people, plant and information and plan protective measures
- Safety officers who run permit-to-work, inspections and incident investigation on operating sites
- Environmental advisers who manage aspects, emissions, discharges and waste obligations
- Asset managers who answer for the overall HSSE performance of a facility or portfolio

The greatest gain comes when the safety, security and environmental leads of one asset attend together, because the integrated plan then reflects agreements between all three disciplines.

Integrated HSSE Principles and Practices Capabilities

Participants learn to treat health, safety, security and environment as one system of related risks rather than four parallel functions.

- Design an integrated HSSE risk register covering hazards, threats and environmental aspects — asset management team
- Assess security threats with threat, vulnerability and consequence scoring — security and operations leaders
- Specify a single permit-to-work and isolation process serving all HSSE controls — site supervisors and contractors
- Build a combined HSSE audit and inspection schedule — assurance and compliance functions
- Calculate integrated leading and lagging HSSE indicators — executive and partner reporting
- Align emergency and crisis arrangements across safety, security and environmental scenarios — incident command teams

Key Integrated HSSE Principles and Practices Terms

- HSSE — health, safety, security and environment managed as one connected discipline with shared processes, risk registers and reporting.
- Integrated management system — one set of policies, processes and records that meets the requirements of several management standards together.
- Threat assessment — a structured evaluation of who might cause deliberate harm, their capability and intent, and the assets they could target.
- Environmental aspect — an element of an activity, product or service that interacts with the environment, such as emissions or waste.
- Security vulnerability — a weakness in people, procedures or physical protection that a threat could exploit to cause harm.
- Combined scenario — an event where hazards from more than one discipline interact, such as an intrusion causing a fire or spill.

Integrated HSSE Principles and Practices Day by Day

Day 1: The Case for Integrated HSSE

- HSSE Discipline Boundaries and Overlaps — Where Silos Leave Gaps
- Common Management System Structure — Shared Clauses Across Standards
- ISO 45001 and ISO 14001 Integration Points — Shared Processes
- Stakeholder Expectations of HSSE — Lenders, Partners and Communities
- HSSE Maturity Assessment — Baseline of Current Integration

Day 2: Integrated Policy, Leadership and Organisation

- Single HSSE Policy Design — Commitments Across Four Disciplines
- HSSE Roles and Accountability Matrices — RACI for Asset Teams
- Legal and Other Requirements Register — Combined Obligations Tracking
- HSSE Competence Frameworks — Cross-Skilling Safety and Security Staff
- Consultation and Participation Structures — Joint HSSE Committees

Day 3: Hazard, Threat and Aspect Identification

- Occupational Hazard Identification — Task and Area Methods
- Environmental Aspects and Impacts Evaluation — Significance Criteria
- Security Threat Identification — Intent, Capability and Targets
- Process Hazards Linked to Security — Sabotage and Tampering Scenarios
- Information and Cyber Threats to Operations — Control System Exposure

Day 4: Integrated Risk Assessment and Registers

- Unified Risk Matrix Design — Comparing Safety, Security and Environmental Risks
- Threat, Vulnerability and Consequence Scoring — Security Risk Ratings
- Bow-Tie Diagrams for Combined Scenarios — Barriers Across Disciplines
- Integrated HSSE Risk Register Structure — Ownership and Review Cycles
- Risk Treatment Prioritisation — Allocating Limited Resources

Day 5: Operational Controls Across HSSE

- Integrated Permit-to-Work Systems — Safety, Security and Environmental Checks
- Isolation and Lock-Out Coordination — Energy and Access Control
- Access Control and Perimeter Protection — Physical Security Measures
- Spill Prevention and Waste Management Controls — Environmental Protection
- Contractor HSSE Management — Pre-Qualification to Close-Out

Day 6: Security Management in Practice

- Security Risk Assessment Methodology — Site Surveys and Vulnerability Checks
- Protective Security Measures — Deter, Detect, Delay and Respond
- Security Personnel and Guarding Arrangements — Rules and Supervision
- Travel and Journey Management Security — Staff Movement Risks
- Insider Threat Controls — Vetting, Monitoring and Reporting

Day 7: Environmental Management in Practice

- Emissions and Discharge Monitoring — Environmental Performance Data
- Waste Hierarchy and Segregation — Reducing Environmental Liabilities
- Environmental Incident Response — Containment and Remediation
- Resource Efficiency — Energy and Water Use Reduction
- Environmental Compliance Evaluation — Permits and Consent Conditions

Day 8: Emergency and Crisis Arrangements

- All-Hazards Emergency Planning — Safety, Security and Environmental Scenarios
- Incident Command Structures — Roles During Combined Events
- Security Incident Response — Intrusion, Threat Calls and Evacuation
- Business Continuity Linkage — Recovery After HSSE Events
- Integrated Drills and Exercises — Testing Cross-Discipline Response

Day 9: Assurance, Audit and Performance Reporting

- Integrated HSSE Audit Plans — Combined Audit Scopes and Checklists
- Inspection Regimes — Frequency and Risk-Based Targeting
- Incident Investigation Across Disciplines — Common Root Cause Methods
- Integrated HSSE Indicators — Leading and Lagging Measures
- HSSE Management Review — Executive Decisions on Performance

Day 10: Practising the Integrated HSSE Plan

- Integrated Risk Register Applied — Case Asset Hazards, Threats and Aspects
- Permit and Access Controls Applied — Single Control Process for the Asset
- Emergency Arrangements Applied — Combined Scenario Response Map
- Audit and Indicator Set Applied — Assurance Calendar and Dashboard
- Integrated HSSE Plan — Final Plan and Peer Review

Applying Integrated HSSE Principles and Practices After the Course

- Merge the existing safety, security and environmental registers for one asset into a single integrated HSSE risk register using the unified risk matrix.
- Run a combined scenario tabletop exercise, such as an intrusion leading to a release, and record gaps between the safety, security and environmental responses.

Integrated HSSE Principles and Practices Questions FAQ

What are Integrated HSSE Principles and Practices and why do they matter now?

Integrated HSSE Principles and Practices manage health, safety, security and environment as one system with shared risk registers, permits, audits and reporting. They matter now because exposed assets, combined threats and leaner teams make separate silos costly and risky.

Which roles gain most from Integrated HSSE Principles and Practices training?

HSSE coordinators, security officers, safety officers, environmental advisers and asset managers gain most. You benefit if you need one coherent view of hazards, threats and environmental aspects for an operating asset.

How do Integrated HSSE Principles and Practices differ from a single-discipline HSE course?

A single-discipline HSE course usually treats safety and environment while leaving security aside. This course integrates security threat assessment with safety and environmental controls, using combined scenarios from oil and gas, utilities and logistics facilities.

What do you bring back from Integrated HSSE Principles and Practices training?

You bring back an integrated HSSE plan for a case asset, with a combined risk register, a single permit and access process, combined emergency arrangements and an audit and indicator set.

Integrated HSSE Principles and Practices: The Way Forward

The integrated HSSE plan first informs how the asset merges its separate registers, permits and audits into one process. HSSE coordinators, security and safety officers and asset managers use it to agree ownership across disciplines. After its first use, the combined scenarios and the unified risk matrix deserve a fresh look, since threat levels and environmental obligations change faster than safety hazards.