JUPITER PRIME

Consulting • Training • Advisory

جوبيتر برايم للاستشارات والتدريب

COURSE BROCHURE

Industrial Site Major Emergency Response Training Course

jupiterprime.uk

info@jupiterprime.uk

Registered in the United Kingdom and Saudi Arabia

Industrial Site Major Emergency Response Training Course

Industrial Site Major Emergency Response is a 1-week training course for site emergency managers, HSE officers and on-scene commanders, built around a site emergency response plan each participant drafts and tests. Fires, explosions and toxic releases now escalate faster across tightly packed process units, contractor-heavy shifts and neighbouring communities. Jupiter Prime Training delivers this course on Industrial Site Major Emergency Response for those who hold command when a process upset becomes a major incident.

Why Industrial Site Major Emergency Response Matters Now

Three pressures shape industrial emergency command today: denser process plants where one loss of containment cascades into neighbouring units, large contractor workforces who must muster and be counted quickly, and communities who judge a site by its first hour of response. Good command limits casualties, asset damage and downtime; hesitation loses the fire ground. The course draws on ISO 22301 business continuity management systems for recovery and ISO 22361 crisis management guidelines for escalation.

Who Gains Most from Industrial Site Major Emergency Response

- Site emergency coordinators who own the emergency response plan and its drills
- HSE officers who assess fire, explosion and toxic gas hazards on process units
- On-scene commanders who direct firefighting, rescue and isolation at the incident point
- Shift supervisors and control room leads who raise the first alarm and initiate shutdowns
- Emergency control centre staff who track resources, casualties and external liaison

A site gains most when its on-scene commander, control room lead and control centre coordinator attend together.

Industrial Site Major Emergency Response Capabilities

Participants leave able to take command of a fire, explosion or toxic release from the first alarm until the site is handed back to operations.

- Assess major accident scenarios using hazard and consequence modelling — emergency planning priorities
- Design an incident command structure with clear tactical and strategic roles — site leadership
- Direct emergency control centre operations, logs and resource boards — external responders
- Apply mustering, headcount and evacuation procedures under toxic plume conditions — workforce safety
-

Coordinate mutual aid with neighbouring plants and public fire services — escalation decisions
- Test the emergency response plan through a live command scenario — plant management

Key Industrial Site Major Emergency Response Terms

- Incident Command System ICS — a standard command structure assigning command, operations, planning and logistics roles during an emergency.
- Emergency Control Centre ECC — the protected room where senior responders coordinate resources, communications and decisions away from the incident.
- Mustering — the assembly of all personnel at designated points so that every person on site can be accounted for.
- Mutual Aid — a prearranged agreement for neighbouring facilities to share firefighting crews, equipment and foam during major incidents.
- Toxic Plume Modelling — estimating how a released gas cloud travels and disperses to set shelter and evacuation zones.
- Boiling Liquid Expanding Vapour Explosion BLEVE — the violent rupture of a pressurised vessel exposed to fire, releasing a fireball.

Industrial Site Major Emergency Response Day by Day

Day 1: Major Accident Hazards on Industrial Sites

- Major Accident Scenario Register — Which Events Drive Emergency Planning
- Fire, Explosion and Toxic Release Consequences — Setting Hazard Zones
- Process Safety Barriers and Escalation Paths — When Response Begins
- Emergency Response Plan Structure — Linking Hazards to Actions
- Lessons From Historic Plant Disasters — Recognising Recurring Command Failures

Day 2: Incident Command and Control

- Incident Command System Roles — Assigning Tactical and Strategic Leads
- On-Scene Command Post Set-Up — Positioning Upwind and Safe
- Dynamic Risk Assessment at the Fire Ground — Committing or Withdrawing Crews
- Command Handover Protocols — Transferring Authority to Public Services
- Radio Discipline and Situation Reports — Keeping Commanders Informed

Day 3: Emergency Control Centre and Mutual Aid

- Emergency Control Centre Layout and Status Boards — Tracking Resources
- Decision and Action Logs — Recording Command Choices for Inquiry
- Mutual Aid Agreements With Neighbouring Plants — Calling Extra Crews
- Liaison With Hospitals and Public Fire Services — Escalation Thresholds
- Escalation to Corporate Crisis Teams Under ISO 22361 — Strategic Handoff

Day 4: Evacuation, Mustering and Recovery

- Toxic Plume Modelling and Shelter-in-Place — Protecting Workers and Neighbours
- Muster Point Headcount Systems — Accounting for Contractors and Visitors
- Casualty Handling and Triage Areas — Prioritising Medical Response
- Site Stabilisation and Re-Entry Criteria — Declaring the Incident Closed
- Business Recovery Linkage Through ISO 22301 — Restarting Critical Units

Day 5: Practising the Site Emergency Response Plan

- Tabletop Scenario of a Tank Farm Fire — Applying Command Roles
- Live Control Centre Simulation — Applying Logs and Status Boards
- Toxic Release Muster Drill — Applying Headcount and Shelter Rules
- Hot Debrief and Lessons Learned Review — Correcting Command Gaps
- Site Emergency Response Plan Completion — Final Peer Challenge

Applying Industrial Site Major Emergency Response After the Course

- Run a tabletop exercise with the site command chain using the scenario format practised, recording handover gaps in the decision log
- Audit muster point headcount arrangements for contractors and visitors against the toxic plume shelter rules developed during the course

Industrial Site Major Emergency Response Questions FAQ

What is Industrial Site Major Emergency Response and why does it matter now?

It is the command of fires, explosions and toxic releases from first alarm to recovery. It matters now because dense plants and large contractor workforces let incidents escalate within minutes.

Which roles gain most from Industrial Site Major Emergency Response training?

Site emergency coordinators, HSE officers, on-scene commanders and control centre staff gain most, since each holds a link in the command chain the course rehearses.

How does Industrial Site Major Emergency Response differ from a strategic crisis management course?

It focuses on tactical command at the fire ground and control centre. A strategic crisis course addresses executive decisions and reputation, reached here only at escalation.

What do you bring back from Industrial Site Major Emergency Response training?

You bring back a tested emergency response plan for your facility, challenged by peers from refining, chemicals and power generation during the final scenario.

Industrial Site Major Emergency Response: The Way Forward

The site emergency response plan first informs who takes command when the alarm sounds and when the incident escalates beyond the fence line. Plant managers, shift supervisors and public fire services use it during drills and real events. After its first exercise, revisit the mutual aid triggers and muster headcount timings, since these drift fastest as contractors and plant layouts change.