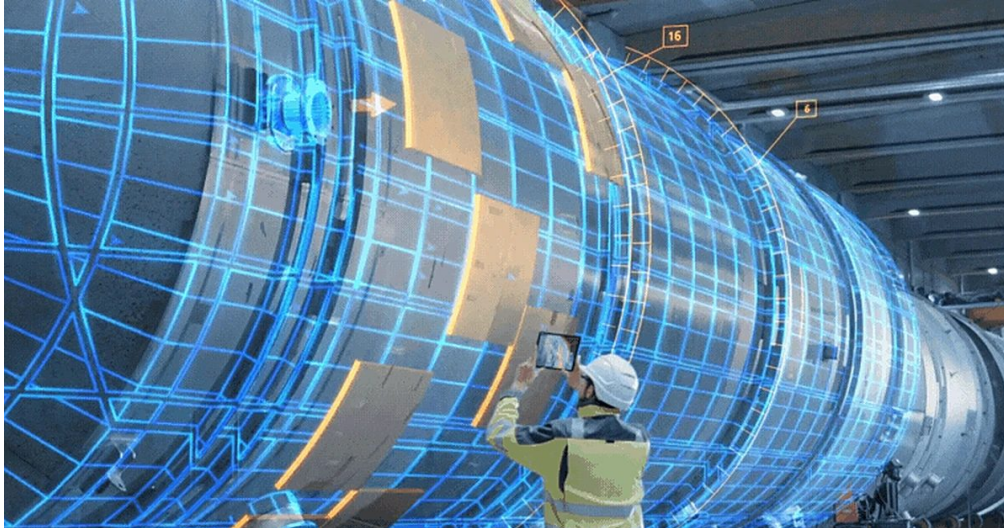




MLC SERVICES • 13

Safety Studies

Multidisciplinary studies across fire, electrical, civil, chemical and process safety.



WHAT WE COVER

Fire & electrical — Fire protection reviews, fire-risk assessments, arc-flash and electrical safety studies.

Process & chemical — HAZOP, HIRA, process safety management, chemical compatibility and related studies.

Civil & workplace — Structural and construction-site reviews, machinery, ergonomics and logistics risk assessments.

MLC offers multidisciplinary safety studies across fire, electrical, civil, chemical and process safety, plus the wider workplace and emergency reviews below. Every study is scoped around your facility and operations, and reported with findings and recommendations your teams, authorities and insurers can act on. The current portfolio is listed below.

Fire Safety

- Fire & Gas Detection Mapping Study
- Design Adequacy of Fire Protection System
- Business Process Re-Engineering
- Fire Load Calculations
- Fire Risk Assessment / Fire Safety Audit
- Electrical Safety
- Arc Flash Study
- Lightning Risk Assessment and Design of Lightning Protection System
- Hazardous Area Classification (HAC) – ATEX Study



- Thermography
- Electrical Safety Audit
- E HAZOP
- Inspection of Flameproof Electrical Equipment's
- Static Electricity Study
- Energy Conservation Audit
- Electrical Thermography
- Mechanical Thermography
- Building Thermography
- Thermovision scanning in Cold Storage, Pharmaceuticals
- Medical Thermography
- Thermovision Scanning in Transmission lines
- Thermovision Scanning in Cement Boilers, refinery
- Thermography in Paper, Pulp, Printing, Packing
- Thermography in Hotel, food, beverage, Polymer, fiber, Glass, Milk dairy, Textile
- Power Quality services and Harmonic study
- Power Quality Analysis Audit Services
- Harmonic study
- Energy Audit
- Power Audit
- Power Factor Audit
- Transients Audit
- Load Flow Analysis
- Flicker Study
- UPS & Generator Study
- Earthing Audit and Insulation Resistance Measurement
- Civil Safety
- Building Structural Stability Study
- Building Risk Assessment – using Non-Destructive Testing
- PHSER Study
- Project Risk Assessment
- Construction Site Safety Audit
- Chemical Safety
- Chemical Compatibility Study



- Respiratory Fit Testing
- Personal Exposure Study / Workplace Monitoring Study / VOC Study / Chemical Exposure Monitoring Study (IDLH, STEL, TLV)
- Dust Explosion Study
- Dispersion Modeling (Flare, SRV, Dump tanks, Scrubbing Vent Hazards)
- Minimum Ignition Energy Study
- Minimum Ignition Temperature Study
- Bulk Chemical Storage Risk Assessment
- Process Safety
- PSM Gap Analysis
- Process Safety Management (PSM) Implementation
- Quantitative Risk Assessment (QRA)
- Safety Integrity Level (SIL) Study / LOPA / Functional Safety
- Hazard Identification and Risk Assessment (HIRA) / HARA / HAZID Study
- Hazard & Operability Study (HAZOP)
- Pre-Startup Review
- Business Process Reengineering
- Business Continuity Plan
- Process Hazard Analysis (PHA Study)
- Job Safety Analysis
- Others
- Human Factor Engineering and Ergonomic Studies
- Statutory Safety Audit/Comprehensive Safety Audit
- Preparation or Vetting of On-Site Emergency Plan
- Preparation or Vetting of Off-Site Emergency Plan
- Pre-Occupancy Audit
- Behavior Based Safety / Safety Culture Survey
- Industrial Hygiene Monitoring Study
- Security Vulnerability Assessment (Security Audit)
- Machinery Risk Assessment
- Logistics Risk Assessment (inside or outside the plant truck movement)
- COPE and Probable Maximum Loss Study (PML) Study
- Inspection behalf of insurance & Brokerage firms (for underwriting or value addition or safety improvement) Training



- FAQ

What kinds of safety studies does MLC offer? Studies across fire, electrical, civil, chemical and process safety, plus emergency planning, behaviour-based safety and security assessments.

Which process safety studies are included? PSM gap analysis and implementation, QRA, SIL/LOPA, HIRA/HAZID, HAZOP, pre-startup reviews, process hazard analysis and job safety analysis.

What electrical safety studies are available? Arc flash studies, lightning risk assessment, hazardous area classification, electrical safety audits, thermography, power quality and harmonic studies, and earthing audits.

Can MLC prepare emergency plans? Yes. MLC prepares or vets on-site and off-site emergency plans.

Does MLC work with insurers? Yes. MLC carries out inspections on behalf of insurance and brokerage firms, including probable maximum loss (PML) studies.

Useful details to share when you enquire

- Facility and process overview
- Study objective and areas of concern
- Available drawings, assessments and incident records

TALK TO MLC

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