

SAFETY LINES

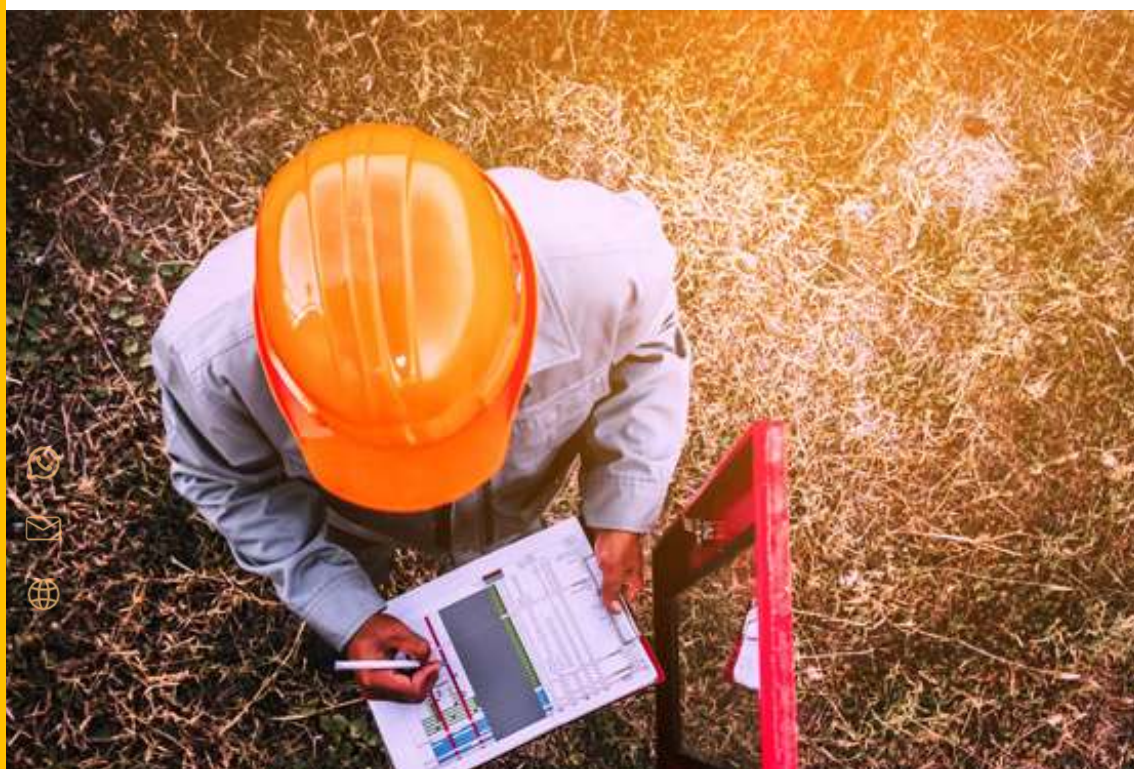
Health and Safety Consultancy

استشارات السلامة والصحة المهنية



COMPANY PROFILE





WELCOME TO OUR COMPANY

We are delighted to welcome you to the Safety Lines team! As a leader in fire and safety consultancy, we are committed to delivering expert guidance and solutions that protect lives, property, and businesses. Your role is an essential part of our mission to ensure safety and peace of mind for our clients and communities.

At Safety Line, we value collaboration, innovation, and excellence. We are dedicated to supporting you in your professional journey, providing opportunities for growth, and fostering an environment where your ideas and expertise make a difference.

Together, we will continue setting the standard for exceptional fire and safety consultancy services. We're excited to have you on board and look forward to achieving great things together.

COMPANY ABOUT US

At Safety lines Engineering Consulting, we specialize in delivering comprehensive safety consultancy services across various critical fields. Our expertise includes:

- **Safety Engineering and Fire Prevention:** Developing and implementing strategies to prevent fire hazards and ensure structural safety.
- **Occupational Safety and Health:** Promoting workplace safety, reducing risks, and ensuring compliance with regulatory standards.
- **Safety in Evacuating Buildings:** Designing and optimizing evacuation plans to protect lives during emergencies.

With a team of highly qualified engineers and technicians, we bring extensive experience and a commitment to excellence in various engineering disciplines. By leveraging our team's expertise, we provide tailored safety consultations that adhere to the highest applicable standards, ensuring the safety and well-being of our clients and their assets.

At Safety lines, your safety is our mission.



Our Vision

At Safety lines, our vision is to be the leading provider of expert safety consultancy services in the United Arab Emirates. We are committed to equipping facilities and buildings with solutions that meet and exceed the highest international safety specifications and standards.

Our Mission

To meet the needs of our customers by delivering exceptional consulting services that align with the latest international specifications and standards in engineering safety, building safety, and fire safety. Our experienced and specialized team is dedicated to providing innovative, reliable, and effective solutions to ensure the safety and well-being of our clients and their assets.

Our Objectives

- 1. Excellence in Building Safety**
Providing top-tier consultations to ensure comprehensive building safety.
- 2. Advanced Fire Protection Solutions**
Offering engineering solutions to safeguard lives, property, and buildings from fire risks.
- 3. Enhanced Occupational Health and Safety**
Promoting safer work environments and reducing risks to protect society.

Fire prevention and protection engineers are specialized professionals committed to reducing fire risks and safeguarding people, the environment, and infrastructure. They conduct research, design, and implement innovative solutions to prevent fire outbreaks and contain their spread, including the development of fire-resistant materials and advanced detection systems. These engineers ensure compliance with rigorous fire safety regulations for buildings, public spaces, and industrial facilities, ultimately protecting lives and valuable assets.

Safety & Prevention Against Fire Engineering Consultancy



Fire Engineering

The Fire Engineering team at Design Confidence utilizes scientific and engineering principles, alongside a deep understanding of international codes and standards such as NFPA and the UAE Fire & Life Safety Code. We evaluate the performance of fire and life safety designs to ensure the safety of occupants in various structures, including malls, airports, warehouses, tunnels, atria, stadiums, exhibition halls, data centers, factories, temples, sports complexes, swimming pools, gymnasiums, libraries, metro stations, mining areas, marine accommodations, offices, residential buildings, clean rooms, laboratories, retail stores, and museums.

While meeting prescriptive code requirements can sometimes challenge innovative design teams in terms of practical application and cost feasibility, recognized international standards such as NFPA 5000 offer an alternative: "Performance-Based Designs." These focus on the performance of fire and life safety systems to ensure occupant safety, rather than strictly adhering to prescriptive code requirements.

Performance-Based Designs aim to:

- Achieve cost-effective designs
- Maximize rentable floor space
- Encourage innovative, flexible design approaches
- Potentially shorten construction schedules
- Minimize risks to life

Our Fire Engineering Division works closely with core design teams to integrate cutting-edge fire and life safety solutions. Our designs are supported by an in-house team of Computational Fluid Dynamics (CFD) specialists and expert judgment based on a thorough understanding of fire dynamics, occupant behavior, and the effects of fire.

Fire & Smoke Modeling

When a fire breaks out in an occupied space such as a mall, airport, or atrium it generates heat and smoke that can be fatal. CFD is an invaluable tool for simulating fire scenarios and visualizing key parameters such as smoke concentrations, temperature gradients, and visibility profiles at various intervals. This helps demonstrate the effectiveness of designs in maintaining safe conditions for occupants during a fire.

Human Evacuation Modeling

The primary goal of any fire and life safety design is to ensure that occupants can safely evacuate during a fire emergency. By simulating evacuation scenarios, we visualize the movement of people within the building and estimate the time required for complete evacuation. This simulation accounts for various factors, including:

- Number and familiarity of occupants
- Available exits, doors, and staircases
- Physical characteristics and health of occupants
- Alarm system effectiveness
- Social interactions between occupants

To achieve realistic simulations, Design Confidence utilizes FDS+Evac, a state-of-the-art technology that integrates egress modeling with fire and smoke simulations. This accounts for the effects of fire, such as increased temperatures, reduced visibility, and high carbon monoxide concentrations, on occupant movement and evacuation processes.



Professional Safety & Health Consultancy

- **Developing Safety Foundations and Procedures**

Prepare and develop the foundational procedures and instructions for occupational safety and health, including safety policies, safe work instructions, evacuation guidelines, safety committee instructions, safety records, and medical examination protocols. Ensure their approval and monitor compliance with these standards.

- **Hazard Identification and Signage**

Identify mechanical, electrical, and chemical hazards at the work site, and implement appropriate warning signs and posters to ensure awareness and mitigate risks.

- **Safety Equipment and Supplies Management**

Prepare lists detailing the items, quantities, and specifications of occupational safety and health equipment and supplies. Oversee their provision and ensure workers are committed to using them properly.

- **Developing Work Methods and Procedures**

Continuously improve work methods and procedures, ensuring they align with technical advancements and best practices in occupational safety.

- **Specialized Reports and Documentation**

Prepare and manage specialized documents and reports related to engineering works and project progress. Present, clarify, and store these reports in the company's database, ensuring they comply with approved policies and procedures.

Fire and Life Safety Inspection and Auditing Services

Design Confidence provides **independent and objective inspection and auditing services** aimed at determining the extent of non-compliance within both existing and under-construction buildings.

Expert Fire and Life Safety Audits

We specialize in the preparation of **Fire and Life Safety Building Audit Reports**, ensuring compliance with local code requirements of the **Authority Having Jurisdiction (AHJ)** and internationally recognized standards. Our audits provide comprehensive assessments, focusing on identifying deficiencies and proposing solutions to meet fire safety performance requirements.

Tailored Recommendations

Based on sophisticated **risk analysis techniques**, we provide actionable recommendations to address identified deficiencies, helping buildings and systems align with the performance standards set by the AHJ and other relevant international codes.

Case-Specific Design and Risk Assessment

Each building design and the level of risk posed to occupants vary, influencing upgrade requirements, fire safety priorities, and associated costs. We tailor our approach to each project, ensuring that upgrades are practical and cost-effective.

Staged Inspections for Under-Construction Buildings

We conduct **staged inspections** of buildings under construction, ensuring full compliance with **approved Civil Defence (Fire Department)** documentation and approvals. Our service guarantees that the fire safety systems meet the necessary standards throughout the construction process.

Flexible Service Options

Design Confidence offers **two levels of service** to meet clients' specific needs:

- **Comprehensive Reports:** Detailed assessments of compliance levels and improvement recommendations to achieve full compliance.
- **Summary Reports:** A concise overview of key findings and recommendations.

Preparation for Formal Inspections

We assist in preparing buildings for the **formal inspection by the AHJ**, including the witnessing of **Testing & Commissioning** of fire and life safety systems. This ensures that all fire safety systems meet the requirements of local authorities before the final approval.



Safety & Evacuation Engineering Consultancy for Building

Compliance and Preparation

Evacuation plans must meet local and international safety standards. Regular drills and training programs prepare occupants for emergencies and improve readiness.

Key Benefits

- **Enhances Safety:** Protects building occupants with clear evacuation routes.
- **Reduces Time:** Minimizes evacuation time during emergencies.
- **Supports Decisions:** Provides data for informed decisions by owners and responders.

Evacuation Modeling

A critical part of fire safety planning, evacuation modeling ensures all occupants can evacuate quickly and safely in emergencies.



Evacuation Procedures and Diagrams

Fire Evacuation Procedures

Safetyline specializes in creating tailored Fire Evacuation Procedures for construction sites and occupied buildings. These procedures are written in clear, user-friendly language and include:

- Emergency contact details and actions for fires, bomb threats, and other emergencies.
- Instructions for using fire extinguishers and hose reels.
- Comprehensive safety guidelines.

Our process begins with a thorough inspection to identify:

- Optimal exit strategies for all areas.
- Fire equipment locations.
- Site orientation and assembly points.

We then prepare detailed **Fire & Emergency Evacuation Diagrams** adhering to international standards, featuring:

- Floor layouts with rotations.
- Evacuation paths and procedures.
- Assembly points.

Evacuation Diagrams

Evacuation Diagrams are vital for ensuring life safety by providing clear guidance for emergencies. These diagrams combine preventative measures and practical response tactics, ensuring safe evacuations in scenarios such as fires, gas leaks, bomb threats, or medical emergencies.

Key features include:

- Clear, concise information to minimize confusion.
- Consideration of crowd dynamics to prevent hazards.
- Alignment with global best practices in Fire & Life Safety Management.

Safety line's Evacuation Diagrams are designed to protect lives and ensure safe, orderly evacuations in any emergency situation.



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