

AIRSC DISASTER MANAGEMENT

Building a Safer, More Resilient Railway Ecosystem Through Knowledge, Preparedness and Professional Excellence
An Initiative of the All India Rail Safety Council (AIRSC)



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Disaster Management is one of the most critical pillars of national infrastructure resilience, public safety and sustainable development. As India's railway and metro networks continue to expand in scale, speed, complexity, and sophistication, the need for professionally trained disaster management personnel, robust emergency preparedness systems, and integrated risk management has become increasingly important.

The All India Rail Safety Council (AIRSC) is committed to strengthening India's disaster preparedness ecosystem by promoting education, professional capacity building, research, policy support, emergency planning, and community awareness. Through its specialized academic and professional institution—the AIRSC Academy of Safety and Disaster Management (AASDM)—the Council delivers structured education, technical training, certification programmes, and professional development initiatives focused on railway safety, disaster management, industrial safety, emergency response, business continuity, and critical infrastructure resilience.

The Council believes that effective disaster management extends far beyond emergency response. It begins with risk identification, preventive planning, professional competence, technological innovation, institutional preparedness, and continuous improvement. AIRSC therefore works closely with professionals, educational institutions, industries, transport organizations, government bodies, emergency services, researchers, and community stakeholders to promote a proactive safety culture and strengthen national resilience.

OUR COMMITMENT

- Risk Identification & Mitigation
- Preparedness & Capacity Building
- Emergency Response Excellence
- Technology & Innovation
- Community Awareness & Participation

OUR MISSION

To build a knowledgeable, prepared and resilient railway ecosystem capable of preventing disasters, minimizing risks, and ensuring safe and continuous operations for all.

EDUCATION & TRAINING | **CERTIFICATION PROGRAMMES** | **RESEARCH & DEVELOPMENT** | **EMERGENCY PLANNING** | **PROFESSIONAL DEVELOPMENT** | **COMMUNITY AWARENESS** | **CRITICAL INFRASTRUCTURE RESILIENCE**

SAFE RAILWAYS STRONG NATION | www.railsafety.co.in | **SAFETY FIRST ALWAYS**

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Our Vision

To become India's leading professional platform for disaster management education, railway emergency preparedness, safety research, and capacity development by creating highly skilled professionals capable of protecting lives, infrastructure, operations, and national assets through innovation, preparedness, and excellence.

Our Mission

Promote disaster risk reduction through education and professional competency.

Develop a highly skilled workforce for railway, metro, industrial, and infrastructure sectors.

Strengthen emergency preparedness through practical training and simulation-based learning.

Encourage research, innovation, and technology-driven disaster management solutions.

Support organizations in building resilient safety management systems.

Enhance coordination among government agencies, emergency responders, industries, and communities.

Foster a culture where prevention, preparedness, and resilience become integral components of organizational excellence.

Disaster Management Activities of AIRSC

The All India Rail Safety Council undertakes a wide range of professional, educational, technical, and awareness-oriented activities designed to strengthen disaster preparedness across various sectors.

Railway Disaster Preparedness

AIRSC actively supports railway safety initiatives by promoting:

Railway Disaster Management Planning

Station Emergency Response Systems

Railway Accident Preparedness

Passenger Safety Awareness

Emergency Evacuation Planning

Tunnel Emergency Management

Bridge Incident Response

Level Crossing Emergency Preparedness

Fire Safety in Railway Stations

Rolling Stock Emergency Management

Railway Control Room Coordination

Multi-Agency Incident Management

Disaster Communication Systems

Emergency Resource Mobilization

Rail Infrastructure Resilience Planning

Metro Rail Disaster Preparedness

The Council promotes specialized preparedness programmes for metro rail systems covering:

Underground Metro Emergencies

Smoke Management

Passenger Evacuation Procedures

Platform Incident Management

Fire Response Systems

Tunnel Rescue Operations

Integrated Command Centre Coordination

Metro Disaster Recovery Planning

Industrial & Infrastructure Disaster Management

AIRSC also supports organizations in strengthening preparedness for:

Industrial Emergencies

Chemical Incidents

Hazardous Material Response

Power Infrastructure Emergencies

Oil & Gas Safety

Manufacturing Plant Preparedness

Warehousing Safety

Logistics Disaster Planning

Port and Airport Emergency Management

Smart City Emergency Preparedness

Community Awareness Programmes

The Council regularly conducts:

Public Safety Awareness Campaigns

School Safety Programmes

College Safety Workshops

Railway Passenger Awareness Initiatives

Disaster Preparedness Week Activities

Safety Exhibitions

Mock Drills

Community Volunteer Training

First Aid Awareness

Fire Prevention Campaigns

AIRSC Academy of Safety and Disaster Management (AASDM)

National Centre for Professional Excellence

The AIRSC Academy of Safety and Disaster Management serves as the educational and professional training wing of the All India Rail Safety Council. The Academy is dedicated to producing competent professionals capable of managing emergencies, minimizing risks, protecting infrastructure, and strengthening organizational resilience.

The Academy combines academic excellence with practical field-oriented learning, modern technologies, experienced faculty, industry interaction, simulation-based exercises, and real-world case studies to develop professionals who are prepared to respond effectively to complex emergencies.

Our philosophy is simple:

"We Are Creating Professionals, Not Just Students."

Educational Services

The Academy offers comprehensive education and professional development programmes in:

Disaster Management

Railway Safety Management

Metro Rail Safety

Industrial Safety Management

Fire Safety Management

Occupational Health & Safety

Emergency Response Planning

Risk Management

Business Continuity Management

Crisis Communication

Railway Security Management

Infrastructure Protection
Safety Leadership
Safety Auditing
Incident Investigation
Emergency Operations Centre Management

Professional Training Programmes

The Academy conducts specialized technical training on:

Railway Accident Management
Train Derailment Response
Collision Management
Fire Emergency Response
Passenger Evacuation
Tunnel Rescue
Hazardous Material Transportation
Incident Command System (ICS)
Emergency Communication
Railway Medical Response
Disaster Logistics
Search & Rescue Operations
Crowd Management
Disaster Psychology
Railway Crisis Leadership

Railway Disaster Management Excellence

Recognizing the strategic importance of Indian Railways as one of the world's largest transportation networks, AIRSC places special emphasis on railway-specific disaster preparedness.

Training modules include:

Railway Emergency Response Plans
Railway Disaster Risk Assessment
Station Disaster Management Plans
Divisional Disaster Preparedness
Control Office Emergency Coordination
Rolling Stock Recovery Management
Railway Bridge Failure Response
Tunnel Incident Management
Flood Preparedness for Railway Infrastructure
Landslide and Hill Section Safety
Cyclone and Coastal Railway Protection
Heatwave Preparedness
Dense Fog Operational Safety
Track Obstruction Management
Train Fire Emergency Management
Freight Accident Response
Dangerous Goods Transportation Safety
Railway Communication During Emergencies
Business Continuity for Railway Operations
Post-Accident Recovery and Restoration

Research and Innovation

AIRSC encourages research in:

Railway Disaster Risk Reduction

Artificial Intelligence in Emergency Management

Predictive Risk Analytics

GIS-Based Disaster Planning

Drone-Assisted Emergency Response

Smart Incident Management Systems

Digital Command Centres

IoT-Based Safety Monitoring

Climate Change Adaptation

Infrastructure Resilience

Human Factors in Emergency Management

Safety Performance Assessment

Consultancy and Technical Support

The Council provides professional consultancy services for:

Disaster Management Plans

Emergency Response Frameworks

Safety Audits

Business Continuity Planning

Risk Assessments

Vulnerability Studies

Emergency Preparedness Reviews

Incident Investigation

Safety Policy Development

Standard Operating Procedures (SOPs)

Mock Drill Evaluation

Organizational Safety Improvement Programmes

Collaboration and Capacity Building

AIRSC actively collaborates with:

Government Departments

Railway Organizations

Metro Rail Corporations

Disaster Management Authorities

Educational Institutions

Universities

Public Sector Enterprises

Private Industries

Emergency Response Agencies

Healthcare Institutions

Research Organizations

International Safety Professionals

These partnerships facilitate knowledge sharing, technical cooperation, joint research, professional certification, and continuous improvement in disaster management practices.

The All India Rail Safety Council remains dedicated to creating a safer, smarter, and more resilient India by integrating disaster management, railway safety, professional education, technology, research, and community participation.

Through the AIRSC Academy of Safety and Disaster Management, we strive to develop future-ready professionals equipped with the knowledge, technical competence, leadership, and ethical values required to manage emergencies effectively and safeguard critical infrastructure.

As railway systems evolve through high-speed rail, metro networks, dedicated freight corridors, digital signalling, artificial intelligence, automation, and smart mobility technologies, AIRSC continues to advance disaster management capabilities that support operational continuity, passenger safety, infrastructure resilience, and national development.

Together, we are building a culture where preparedness is proactive, response is coordinated, recovery is resilient, and safety remains the foundation of every railway journey and every infrastructure system.

AIRSC Academy of Safety and Disaster Management stands committed to advancing excellence in disaster management education, strengthening railway resilience, and supporting the vision of Viksit Bharat 2047, Atmanirbhar Bharat, and a safe, sustainable, and future-ready transportation ecosystem for the Nation.



AIRSC
ACADEMY OF SAFETY & DISASTER MANAGEMENT
A PREMIER UNIT OF THE ALL INDIA RAIL SAFETY COUNCIL (AIRSC)

It plays a vital role in supporting India's national priorities, including **Viksit Bharat 2047**, **Atmanirbhar Bharat**, and **Net Zero 2070**, by ensuring that safety remains the foundation of railway modernization and sustainable development.

OUR INSTITUTIONAL PHILOSOPHY
"WE ARE CREATING PROFESSIONALS, NOT JUST STUDENTS."

The AIRSC Academy of Safety and Disaster Management is committed to shaping individuals into **capable professionals**, **responsible leaders**, and **safety ambassadors**.

 **BUILDING A SAFER RAILWAY** **www.airsc.in** **EMPOWERING PROFESSIONALS** | **SERVING THE NATION**



THE RAIL SAFETY RESEARCH AND DEVELOPMENT FORUM
A premier platform dedicated exclusively to advancing rail safety through research, policy dialogue, and professional collaboration.

A UNIT OF:  **ALL INDIA RAIL SAFETY COUNCIL**

 **INDIAN RAILWAYS**  **SAFETY REGULATORS**  **INVESTIGATION AGENCIES**  **INDUSTRY EXPERTS**  **RAIL UNIONS**  **RESEARCHERS**  **COMMUNITY STAKEHOLDERS**



ALL INDIA RAIL SAFETY COUNCIL (AIRSC)

★★ Safety First • Safety Always ★★

RAIL SAFETY • DISASTER MANAGEMENT • RESILIENCE

BUILDING A SAFER, MORE RESILIENT RAILWAY ECOSYSTEM

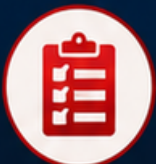
Through Knowledge, Preparedness
and Professional Excellence

An Initiative of
All India Rail Safety Council (AIRSC)

TOGETHER FOR SAFETY, PREPAREDNESS & A STRONGER INDIA



Education &
Training



Risk Assessment
& Planning



Capacity Building &
Professional Excellence



Emergency Preparedness
& Response



Collaboration &
Community Awareness



Safety, Security
& Resilience

AIRSC is committed to promoting a proactive safety culture and strengthening disaster preparedness across Railways, Metro, Industries and Communities.



www.railsafety.co.in



RAIL SAFETY

RESEARCH AND DEVELOPMENT FORUM (RSRDF)

Advancing Railway Safety Through Research, Innovation
and Disaster Resilience

— AN INITIATIVE OF THE **ALL INDIA RAIL SAFETY COUNCIL (AIRSC)** —

The Rail Safety Research and Development Forum (RSRDF), an initiative of the All India Rail Safety Council (AIRSC), is a premier knowledge-driven platform dedicated to strengthening railway safety, disaster management, technological innovation, and operational excellence across India's rail and metro systems.



RAILWAY SAFETY
ENGINEERING



DISASTER
PREPAREDNESS



TECHNOLOGICAL
INNOVATION



RISK MANAGEMENT &
ACCIDENT PREVENTION



EMERGENCY RESPONSE
SYSTEMS



RESEARCH, DATA &
ANALYTICS

Through collaboration with professionals, researchers, policymakers, industry leaders and academic institutions, RSRDF promotes research, knowledge sharing, technical publications, safety audits, capacity building, and evidence-based policy development to build safer, smarter and more resilient railway operations.



DISASTER MANAGEMENT
& EMERGENCY PREPAREDNESS



CYBERSECURITY
& DIGITAL SAFETY



RESEARCH, TRAINING &
CAPACITY BUILDING



SAFETY AUDITS &
RISK ASSESSMENT



SMART INFRASTRUCTURE
& SUSTAINABILITY



SAFETY FIRST
SAFETY ALWAYS



SAFE TRACKS
STRONG NATION
UNITED INDIA



INNOVATION
RESEARCH
RESILIENCE



PREPAREDNESS
PROTECTS LIVES



SHAPING THE FUTURE
OF RAIL SAFETY

Together, the All India Rail Safety Council and the Rail Safety Research and Development Forum are building a safer, smarter, and more resilient railway ecosystem for India—where research drives innovation, preparedness protects lives, and safety remains the highest priority.