LOCATION

The Simulator

The ARFF driving simulator is utilized for training drivers and operators of the airport Crash Fire Tenders (CFT). In the ARFF CFT simulator, the trainees are able to drive to the incident scene, and perform firefighting operations and turret operations from within the CFT mini cab station

The CFT mini cab station provides airport firefighting crew commanders and drivers the opportunity to train operational skills such as
Vehicle and Turret Operation
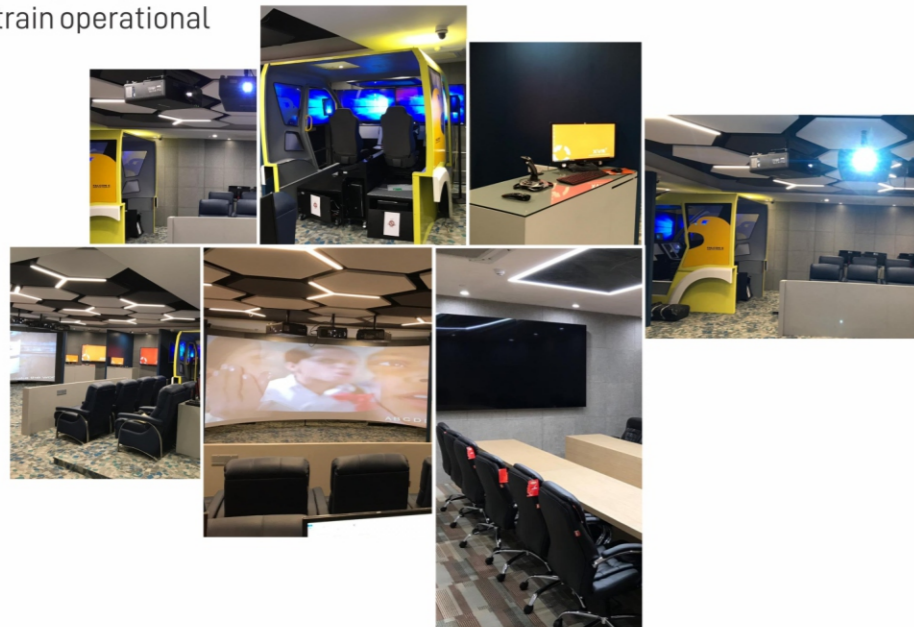
Basic Driving and Positioning

Fire Fighting and Rescue Operations

Spillage Containment

Damage Mitigation

Resource control

Teamwork

FEATURES

The integrated physics-based effects ensure that aircraft incidents are realistically simulated, including the fire, smoke, spills, and fuselage burn-through times. Vehicle agent capacity and application rates of agents are also realistically simulated. The vehicle dynamics package is based on the actual ARFF vehicle; therefore, acceleration, deceleration, driving speed, taking curves, vehicle suspension, rollover, and vehicle payload are all accurately simulated

HARDWARE

The ARFF Station consists of a Mini cab base frame, a five (5) 65" monitor visual display system (including roof view), the ARFF simulator that has 2 interchangeable OEM dashboards and centre console (RosenBauer Panther XO & NAFFCO) with operational joysticks, switches and indicators

Two (2) vehicle seats with full motion simulation, a steering wheel and pedal assembly with force loading, and a sound system

LABOTEK
enhancing technology

ICMS

INCIDENT COMMAND MANAGEMENT SYSTEM (ICMS)

WHAT

The Incident Command Management System (ICMS) is a standardized approach to the command, control, and coordination of emergency response providing a common hierarchy within which responders from multiple agencies can be effective

WHY

To be applicable across a full spectrum of potential incidents, hazards, and impacts; regardless of size, location or complexity

WHO

The Incident Command Management System (ICMS) software has been used by organizations worldwide to provide complete multi-agency emergency management training. It is capable to train the following stakeholders in India:

- City Fire Services
- Airport Fire Services
- Paramedics
- Natural Disaster Agencies

- Defence Ammunition Centres
- Thermal Power Plants
- Civil Defence
- Indian Railways Fire Services

- Security Forces & Protection Group
- Oil & Gas Exploration Agencies
- Ports & Ship Building
- Mega Factories

WHERE

AREAS WHERE ICMS CAN BE USED

The ICMS will provide highly realistic training in the following areas:

- Aircraft Rescue and Fire Fighting
- Airport Security
- Airport and Aircraft Familiarization and Orientation
- ARFF Familiarization, Driving and Equipment Operation

- Emergency Preparedness
- Risk Assessment
- Emergency Plan Exercising and Validation
- Disaster Management

- Hazardous Materials Incidents
- Terrorist Attacks
- Natural Disasters
- Fires Fighting

FEATURES

- Superior high-end visualizations | true to life simulation
- Physics-based simulation | Fires, smoke, spills, hazmat leaks and fire fighting agents
- Artificially intelligent vehicles and crews
- Realistic effects of evacuation, fire fighting and rescue actions
- Embedded artificial intelligence for vehicles and people
- Directional sounds
- Weather conditions that affect the fire, smoke, and hazardous material plumes

BENEFIT

Sustainability | Flexibility | Complex events of any scale | Time saving | Cost-effectiveness

COMPONENTS

ON SCENE

RESOURCE & CASUALTY MANAGEMENT

CRISIS MEDIA

THE ICMS ADVANTAGE

- Lower operational and training costs
- Ability to create scenarios based on requirement
- Comprehensive nature of the all-agencies, all-hazards training approach
- Increased learning retention
- Structured and objective scoring and assessment capabilities
- Ability to train anytime, anywhere
- Develop and validate Standard Operating Procedures
- Reduced safety concerns for trainees, staff and environment
- Commandant control over the entire exercise process

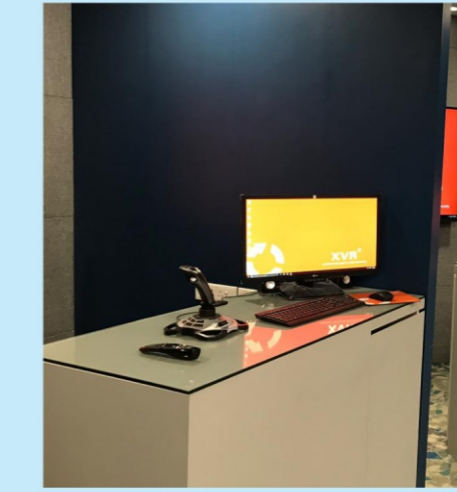# ICMS FIRST TRAINING CENTER IN INDIA

LOCATION

Fire Training Center, Airport Authority of India, New Delhi

THE CENTER

The training system designed and incubated is a network of training stations, including an Exercise Control (Instructor) Station, an Incident Commander Station, four (4) Team Training Stations, and an ARFF Station

Briefing/De-Briefing Room can function as the Command Post/Emergency Operations Centre during large-scale training exercises and for debriefing sessions

Application Software(XVR)

The company XVR Simulation, since 2000, is the world's leading supplier of virtual reality (VR) simulation training software for safety and security professionals

The XVR Simulation platform is designed to support education, training and assessment of incident commanders for fire & rescue, law enforcement and medical services

The simulation platform supports training and assessment of all levels of command, from operational on scene command to strategic commanders in cites, states or at national and international level

The ICMS Simulator

The ICMS Simulator uses state of the art, unity-based visualisation and simulation technology to create highly realistic incident scenarios. The instructor can build any incident scenario from the virtual 3D library with thousands of 3D locations, vehicles, avatars, objects and incidents

CUSTOMIZATIONS FOR AAI

The ICMS Simulator has been customized to match the reality at key AAI airports. Two custom 3D VR environment models were created for AAI, at namely The Chennai International Airport and the Netaji Subhash Chandra Bose International Airport (CCU) in Kolkata

In addition to these custom-made airports, a large library of other 3D training locations is available in the ICMS Simulator including a newly created large generic airport environment

The object library was further expanded with 30 new 3D aircraft including two completely interactive planes (B-777 and B-737)

Various vehicles have been 3D modelled specifically for customer as used in airports with customization in terms of colours and logos. 3D avatars have also been generated using real skin colour and ethnic clothing. Furthermore, the software can be customized easily in terms of content to maximize real pragmatism as per Indian conditions and standards