

HAWAI'I DEPARTMENT OF TRANSPORTATION

AIRPORTS DIVISION

Safety Management System Training

WHAT IS SMS?



– SMS stands for Safety Management System

- It is a systematic approach to managing safety at the airport
- It demonstrates the airport's commitment to providing airport users with a safe airport environment

– Four Components of SMS:

- Safety Policy
- Safety Risk Management (SRM)
- Safety Assurance (SA)
- Safety Promotion



HAWAII'S SAFETY POLICY



MISSION

To develop and promote a Safety Management System for all employees through education, communication, and safe work practices, that reflect the spirit of Aloha. Our mission embraces our commitment to:

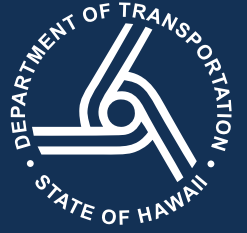
- The unique spirit of Aloha. Applying the spirit of Aloha (which encompasses compassion, hospitality, and respect for our relationships to land and one other) in everything we do such as education, communication, and safe work practices.
- An interconnected safety culture of Airports – Serving our State with a publicly dependent safety culture of first-rate airports, optimized to meet the needs of the communities they serve.
- Connecting Hawaii with the World - recognizing that the economy and well-being of our State depend on the strength of its air links with the rest of the World.

VISION

He 'ōnaehana Ho'omalu Kuakapu e ha'aheo ai 'o Hawai'i.
A Safety Management System that is the pride of our State.
Our vision embraces our commitments to:

- Hawaiian culture and traditions - Influenced by native Hawaiians who navigated to the islands and the diverse people who joined them later. It is based on the spirit of love (aloha), expresses the importance of family and community ('ohana), respect for the land and its resources, and a commitment to stewardship and sustainability (mālama 'āina).
- An Airport's Safety Culture – which is operated to achieve world-class levels of service, based on mutual support and interconnectedness.
- The Pride of our State - whereby the people of Hawaii see our airport's safety culture as a proud representation, reflecting innovation and quality, offering leading-edge facilities and service, and driving the economy of the State Safety Policy Statement

WHAT IS MY ROLE IN SMS?



Safety Assurance

- All badged employees have a role to perform
- Identification of Hazards
- Reporting Hazards
 - See Something, Say Something



HOW DO I REPORT A SAFETY HAZARD?



Hazard Reporting

- Ways to Report a Safety Hazard
 - Online Hazard Identification Form
 - QR Code
 - <https://hidot.hawaii.gov/airports/sms>
 - Manager/Tenant Safety Meetings
- For Safety Hazards that Require Immediate Attention
 - Call Safety Hotline
- Voluntary and Confidential
- Non-Punitive Reporting



Scan the QR Code to File a Hazard Report

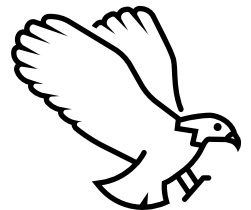
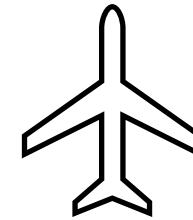
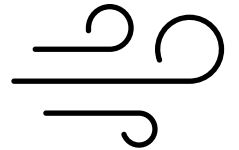
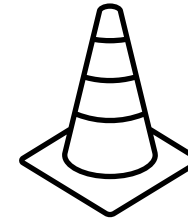


WHAT TYPES OF HAZARDS SHOULD BE REPORTED?

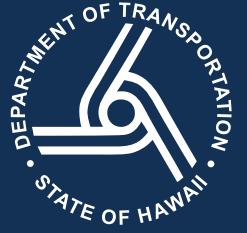


Examples of Hazards at an Airport:

- Suspicious Activity
- Slip and Falls
- Vehicle/Ramp Equipment Accidents
- FOD (Foreign Object Debris) on apron or taxiway that cannot be safely removed
- Fuel Spills
- Jet Blast
- Unsafe Vehicle or Aircraft Operations/Near Misses
- Wildlife Activity



Airport Environmental Challenges



- Fire Fighting Agent (ARFF) Forever Chemicals
- Transition to F3 Agent
- Lithium Battery F-500 Agent
- Environmental Cleanup
- Fire Fighting Agent Discharges



Hawaii Department of Transportation – Airports, Aircraft Rescue Fire Fighting (ARFF) Fire Service Certification Program



Vision

To be recognized as a premier fire service certification program, rooted in integrity, innovation, and excellence, that ensures every firefighter serving Hawaii's airports and communities is trained, tested, and certified to the highest national standards.

MISSION



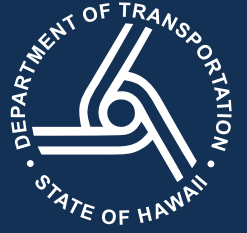
- Our mission is to provide a comprehensive, fair, and transparent certification process that develops firefighters' knowledge, skills, and abilities in alignment with National Fire Protection Association (NFPA) standards. We are committed to:
- Supporting the Federal Aviation Administration (FAA) and the Hawaii Department of Transportation (HDOT) by maintaining compliance with regulatory mandates.
- Partnering with the Hawaii Fire Fighters Association (HFFA) and local fire departments to strengthen interoperability and mutual aid readiness.
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- Ensuring firefighter proficiency through rigorous evaluation of both cognitive knowledge and practical skill performance.
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- Promoting a culture of continuous learning and professional development that protects lives, property, and the environment.
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CORE VALUES



- Integrity – Upholding honesty, transparency, and accountability in all certification practices.
- - Excellence – Striving for the highest standards of training, testing, and program delivery.
- - Safety – Embedding risk management and safety principles into every aspect of the program.
- Service – Committing to the protection of the traveling public, airport communities, and the State of Hawaii.
- - Partnership – Building strong collaborative relationships with FAA, ProBoard, HFFA, and county fire departments.
- - Respect – Honoring the dignity, diversity, and contributions of every firefighter and partner agency.

EMERGENCY PREPAREDNESS



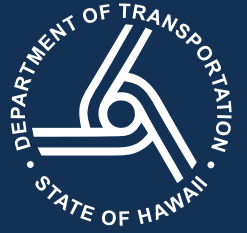
- ARFF Part 139 Regulatory Compliance
- Rethinking Community Response Service
- Rethinking Area of Coverage
- Everbridge Communications
- Statewide Radio Communication
- Mutual Aid Agreements
- Number 1 Priority Personnel Training
- Interagency Personnel Training
- Collaboration Amongst Agencies
- Airport Community
- Aircraft Emergencies
- Medical Emergencies
- Water Rescue
- Fuel Farm Fires
- Ground Emergencies.
- Battery Storage
- Propane, Gasoline, Diesel, Lithium Batteries
- Conrac (Rental Car Facility)

HDOT ARFF STRATEGIC PLAN TRAINING



- FOUNDATION & DISCOVERY
- STAKEHOLDER ENGAGEMENT & INTERVIEWS
- VALUES, VISION & MISSION
- STRATEGIC, THEMES, & GOALS, THEMES & GOALS; METHODS & EXAMPLES
- DRAFTING THE STRATEGIC PLAN
- REVISION & ADOPTION
- LAUNCH & IMPLEMENTATION PLANNING
- SUPPORT IMPLEMENTATION/REINFORCE VMVME.
- MEASURE PROGRESS
- ASSESS CHANGES, MAINTAIN MOMENTUM, MEASURE PROGRESS
- ROAD MAP TO SUCCESS

ARFF Vehicle Depreciation and Salvage Value Analysis



Original Cost: \$900,000.00

Depreciation Method: Straight-Line (Scalable)

Formula:

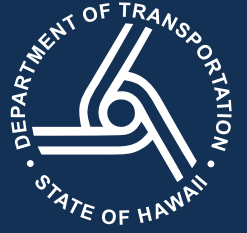
Depreciation per Year = (Cost - Salvage Value) / Useful Life (years)

Book Value at Year n = Cost - (Depreciation per Year × n)

Book Value (%) = 1 - (n / Useful Life)

Year	% Depreciated	Depreciation Value (\$)	Remaining (Book) Value (\$)
5	25%	225,000	675,000
10	50%	450,000	450,000
15	75%	675,000	225,000
20	100%	900,000	0

SMS Four Pillars Narrative – ARFF Vehicle Depreciation



- 1. **Safety Policy**
 - The ARFF vehicle depreciation model establishes a policy ensuring accountability and consistency in asset management. Using the straight-line formula:
$$\text{Depreciation per Year} = (\text{Cost} - \text{Salvage Value}) / \text{Useful Life (years)}$$
 - This ensures transparency, predictability, and compliance with HDOT Airports Division standards.
- 2. **Safety Risk Management**
 - The model identifies fiscal and operational risks associated with aging ARFF vehicles.
$$\text{Book Value at Year } n = \text{Cost} - (\text{Depreciation per Year} \times n)$$
 - $$\text{Book Value (\%)} = 1 - (n / \text{Useful Life})$$
 - This enables timely replacement planning and minimizes risk of vehicle downtime.
- 3. **Safety Assurance**
 - Depreciation tracking verifies that asset replacement aligns with financial projections and safety goals. It provides confidence that ARFF assets remain reliable and operational within FAA Part 139 requirements.
- 4. **Safety Promotion**
 - Integrating depreciation analysis into ARFF planning promotes a culture of fiscal discipline, accountability, and operational safety awareness. It connects financial management to long-term safety performance.
- Summary: The scalable depreciation model embeds SMS principles in ARFF fleet management, ensuring financial and safety alignment.

DEVELOPING GOOD HABITS



- INTELLIGENCE PLUS CHARACTER THAT IS THE GOAL OF TRUE EDUCATION
- Dr. Martin Luther King Jr.
- “Questions???”