

INTRODUCTORY ARFF TRAINING AGENDA

March 15, 2023

1. Aircraft Familiarization
 - LSA/Piston/Turboprop/Turbojet/HELO Identification
 - Helicopters – weaker structures, can be fatal on sides, & never approach from rear or uphill. Auto-rotations (<500 Height/Velocity curve)
2. Aircraft Systems and Materials
 - Fuels (100LL & Jet A) – 100LL flash points & AIT -49/840 & 100/475
 - Hazardous Materials – Aircraft can and do carry Hazmat
 - Military – Ejection seats, weapons, afterburners, & specialized fuels. Call nearest DOD facility for assistance!
 - Airbags & BRS
3. Types of Aircraft Emergencies/Accident Command Control & Recovery
 - Landing gear problems (air & ground)
 - Engine failures Engine fires (air and ground)
 - Unknown medical emergencies Landing accidents

Accident Scene – victims walk toward first responders. One way in and out.

Preservation of Evidence – crime scene, buddy system, photos (if moving anything)

FAA & NTSB Notification Witnesses – record contact information ASAP

Media – Never speculate, assign a POC until NTSB or FAA arrives. Media overhead.
4. ARFF Aircraft Forcible Entry
 - Stabilization – cribbing, air bags, struts, wedges, etc.
 - Doors & Emergency Exits - **“Try before you pry”**
 - Using the Crash Chart Database. If no time – **“Within 3, it should be free”**
 - Cirrus – Do not cut on the left (pilot) side!
 - Standardized Coding Chart

Aircraft Familiarization & Crash Chart Databases are Essential! **Know what you are cutting!**
5. Specials
 - ARFF Extinguishing Agents
 - “To Foam or not to Foam?” **“If you detect, protect it”!**
 - Hot Brakes/Brake Fires “Rescue Side”/Pre-Fire Plans
 - BPS – safetying the system, cutting the cable, rocket removal
 - ARFF HAZMAT & Agricultural Operations
 - Actual Accident photos & Videos
6. Site Specific Aircraft Familiarization (HOT if possible. If not, video training)
 - “Throttles, Bottles, Batteries, Fuel, & Keys”** (but, record/document first!)
 - Cessna, Piper, Beech, Mooney, Cirrus, Air Tractor, and other available SEL
 - Light Sport Aircraft (BPS Identification). Available MEL aircraft & helicopter

INTRODUCTORY ARFF TRAINING AGENDA (cont.)

7. ARFF Mobile Trainer

Aircraft familiarization, theoretical landing gear fire
“Throttles, Bottles, Batteries, Fuel, & Keys”

Theoretical emergency evacuation, theoretical extrication

8. Additional Onboard ARFF Equipment:

- Crash Chart Database
- 14” Rotary Saw & Sawzall(s) with blades
- Extinguishers: PKW “Purple K” & Class D “METL-X”
- Good pair of binoculars
- Seat belt & bicycle cable cutters
- 3/16” diameter allen wrench (to secure BPS)
- Chemical Response Guidebook
- NTSB “Responding to an Aircraft Accident” Pamphlet



9. Know your airport, aircraft, and flying environment!

- How do first responders access the movement areas (entry roads, gates, etc) at your airport?
- Are there any off airport helipads or Restricted Landing Areas (private airfields) in your service area?
- Develop access plans for fields, golf courses, and other places along and 30 degrees to either side of the runway centerlines (all runways, all ends)
- Staging for emergencies

