

# Charlotte County Public Safety Aircraft Rescue Firefighting (ARFF) Simulator





# ARFF Simulator Program

- Needs and Opportunity
- Implementation
- Development Strategy





# Minimum Federal Requirements

- Live Fire Drills
- Aircraft Familiarization
- Firefighting Personnel Safety
- Emergency Communications
- Use of Fire Hoses, Nozzles, and Other Appliances
- Extinguishing Agents
- Aircraft Cargo Hazards
- Firefighting Operations
- Structural Rescue and Firefighting Equipment
- Emergency Aircraft Assistance
- Dangerous Goods
- Duties under the Airport Emergency Plan
- Airport Familiarization

What we do on site  
Specific to Airport

# Southern Training Facility Locations



- Alabama
- Georgia
- South Carolina
- Texas

# Florida Training Locations



- Two Florida sites:
- Charlotte County
- Jacksonville

# Florida Recognized Airports

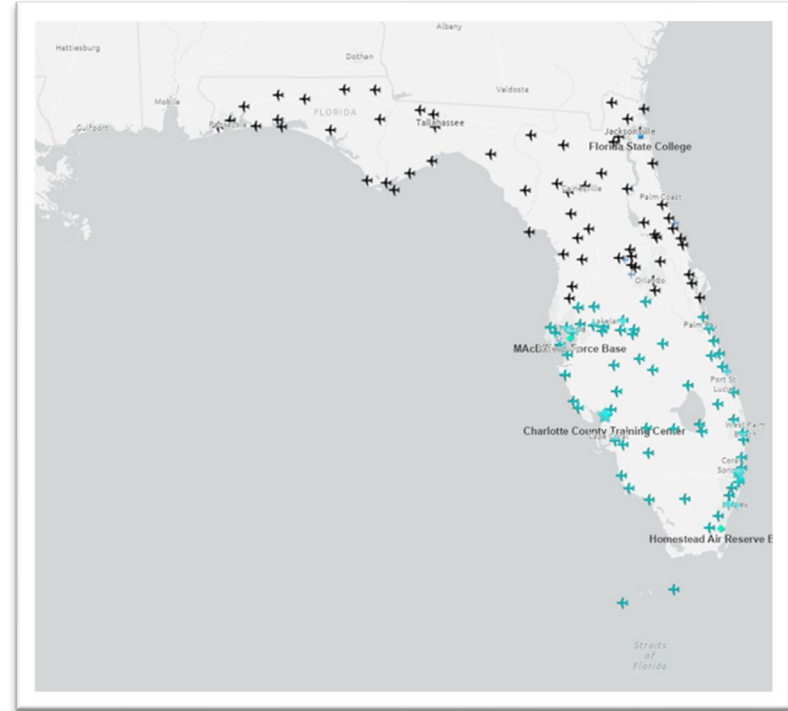


Airports within the region  
of Florida State College at  
Jacksonville (FSCJ)



Airports within the region  
of Charlotte County ARFF  
simulator

\*Over **123 airports** are potential participants of  
the program (26 of which require FAA training).



# Agencies Trained to date:

Bahamas

Orlando

Freeport

Broward

SRQ

Marathon

Lakeland

Volusia

Naples

Fort Lauderdale

RSW

Cleveland (winter destination)



# Charlotte County ARFF Simulator

Training Hours 300  
annually per member

Additional department  
members trained in  
support of ARFF  
operations

Cost Savings

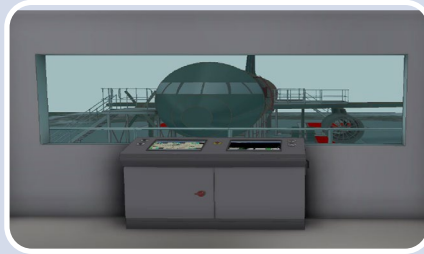
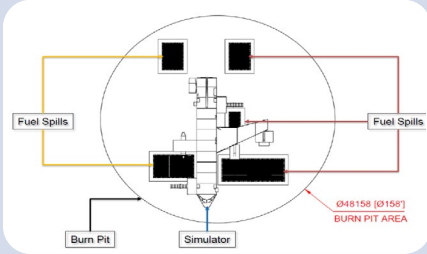
- Travel
- Tuition
- Personnel coverage

Needs and Opportunity



**CHARLOTTE COUNTY**  
FLORIDA

# Progression Timeline



**Concept- Grant  
Solicitation**  
2017

**Design  
Development**  
July 2019

**Official  
Groundbreaking**  
May 2021

**Start of  
Construction**  
December 2021

Implementation



**CHARLOTTE COUNTY**  
FLORIDA

# Program Implementation Timeline

**Completion  
Acceptance**

September 2022

**Internal Training**

October through  
December 2022  
Ribbon cutting  
November 29,  
2022

**Programs  
Offered**

January 2023



# Site Features

- Command Control room
- 18,000 Gallon Propane Fuel Tank
- Training Ground (asphalt/concrete)
- Restrooms/Showers
- Covered Staging/Classroom Area
- Water Reclamation System
- Aircraft Simulator



# Simulator Specifications

## Full sized training aircraft simulator

- - 98' in length
- - 13' diameter fuselage
- - 64' wing-span
- - 11' high passenger compartment
- - 55 sq.' cockpit

## 4 door types

## 4 engine types

## Touch screen control system

## Multiple redundant safety features



ARFF Simulator



CHARLOTTE COUNTY  
FLORIDA

# Logistics

- Marketing-Conferences and social media
- Fee Schedule and Contract
- New Training Programs
- Partnership Opportunities
- Department Staff Training

**2025**  
**40 Hr. Hybrid ARFF Schedule**  
**Upcoming Training**



January 27/28/29 (Online 8:30AM - 12:30PM)  
February 4/5 (In person - Skills/Burn)

April 7/8/9 (Online 8:30AM - 12:30PM)  
April 15/16 (In person - Skills/Burn)

June 9/10/11 (Online 8:30AM - 12:30PM)  
June 17/18 (In person - Skills/Burn)

Pricing info available e-mail [ARFFTraining@charlottecountyfl.gov](mailto:ARFFTraining@charlottecountyfl.gov)



**CHARLOTTE COUNTY**  
Public Safety

Contact:  
[ARFFTraining@charlottecountyfl.gov](mailto:ARFFTraining@charlottecountyfl.gov)  
26571 Airport Road, Punta Gorda, FL 33982 | 941.833.5600

# Program Development

- Budget
- Facility Maintenance
- Student Handbooks
- Instructor Handbook
- Testing Materials
- Manuals
- Instructional Videos
- Course Evaluations
- Hybrid program
- Certificates
- Billing Process
- Invoicing Process
- Agency Contracts
- Course Announcements
- Instructor Training
- Webpage
- Conferences/Seminars
- Severe Weather Plan
- Equipment Needs
- State Approvals



**Aircraft Rescue and Fire Fighting Training**

**Register NOW**

**Now Open for Registration!**

Welcome to the Charlotte County Public Safety Training Center, home of Southwest Florida's ARFF live fire training simulator. We are now open for registration for the Airport Firefighter -Basic (40 hour) certification course and the Live Fire Aircraft Burn (8 hour) re-certification course. Please click below for more information.

**CLICK HERE**

 **CHARLOTTE COUNTY**  
Public Safety Training Center

The banner features a white background with a maroon and grey border. At the top, the title 'Aircraft Rescue and Fire Fighting Training' is in a bold, black, sans-serif font. Below the title are three circular images: a yellow and blue fire truck, a large fire with a fire hydrant, and a fire truck at a training facility. A red circular badge with white text 'Register NOW' is overlaid on the images. The main text 'Now Open for Registration!' is in a large, bold, black, serif font. Below this is a paragraph of text in a smaller, black, sans-serif font. At the bottom right is a red circular button with white text 'CLICK HERE'. The bottom left corner features the Charlotte County Public Safety Training Center logo, which includes a stylized sun and leaf icon and the text 'CHARLOTTE COUNTY Public Safety Training Center'.

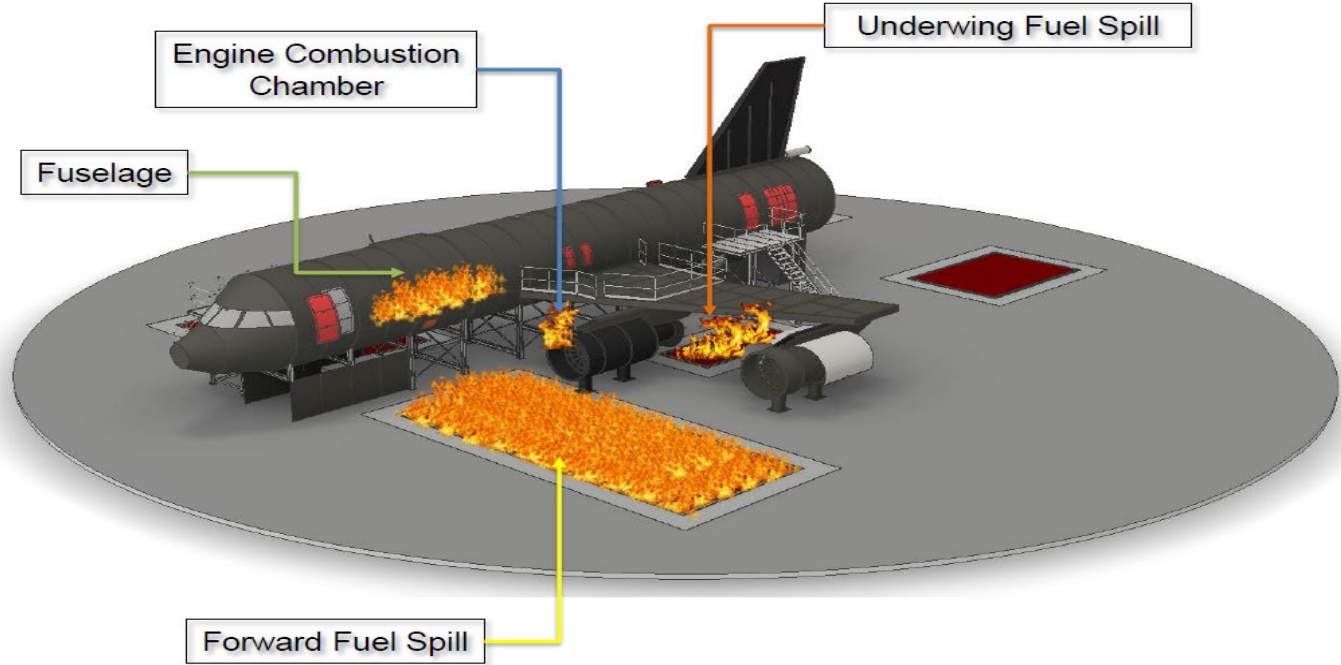
# ARFF Training Programs



Development Strategy  
Programs started and future courses

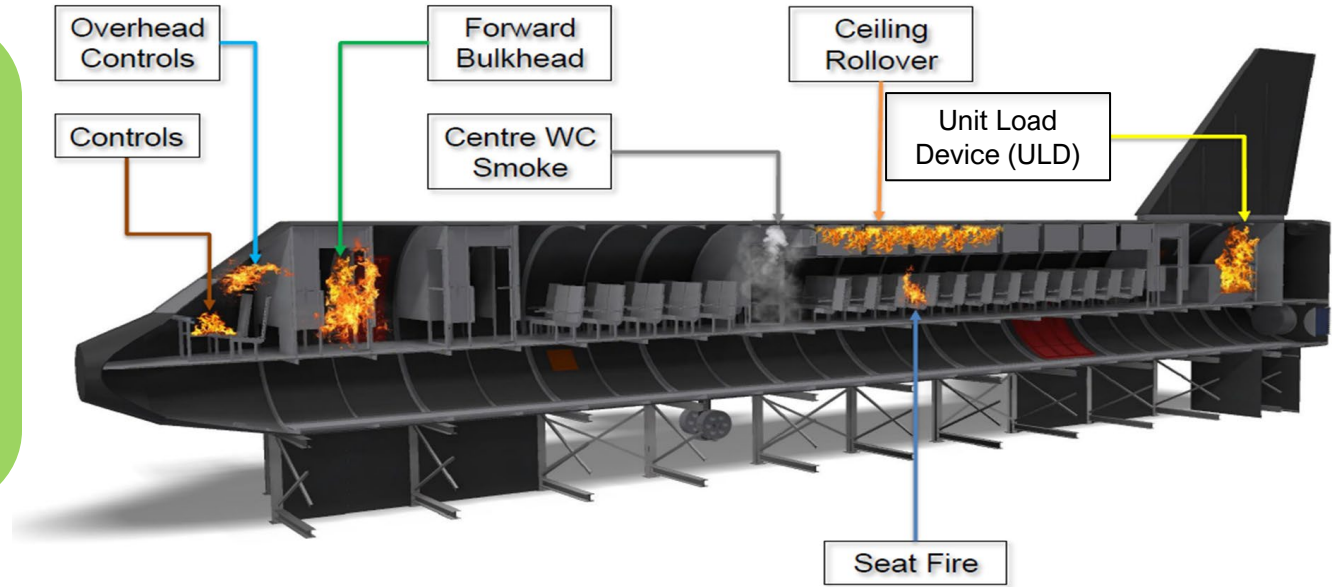
# Exterior Fire Scenarios

- Fuel spills
- Engine fires
- Brake/wheel fire
- Fuselage fire



# Interior Fire Scenarios

- Cockpit fires
- Forward galley and lavatory fire
- Waste bin fire
- Passenger area fire
- Cargo fires



# Things to come:

- Expanded course offerings
- Updated instructor staffing methodology
- Increased Tourism
  - Impacts (Return on Investment)
  - Future needs- Training Division

# Economic Impact Proposal

- Bahama 10 week program \$222,025.78
- Orlando 2 nights \$12,070.02
- 2024 ARFF Leadership \$994,230.81
- 2025 ARFF Leadership proposal  
\$1,244,172.12

# Internal and External Assistance

