
WRK OF ARKANSAS

S.A.F.E. ANALYST TRAINING 2024

S.A.F.E. Analyst Certification Training



TRAINING 2024 INCLUDES:

- S.A.F.E. Fly-In Reference Manual-2024 - USB Edition
- Information-Packed digital storage device
- Hands-On practice and Classroom Instruction
- Actual fly-in, “real world” situations to practice skills

International students encouraged to participate!

**October 28-31, 2024 WRK of
Arkansas LLC, 153 92nd
W, Lonoke AR 72086
Lonoke, Arkansas USA**

REGISTRATION

PREREGISTRATION PRIOR TO AUGUST 15, 2023 IS STRONGLY
RECOMMENDED TO BE ASSURED OF ACCOMMODATIONS

CLASS REGISTRATION FEE — US\$3000 *Pre-registration prior to
October 15, 2024. —US\$3000 10% Discount for additional
registrants from same organization.*

Check, money order, purchase order, or Credit Card accepted—
cash preferred payable to WRK of Arkansas LLC in advance or at on
-site registration.

Pre-register by e-mailing your
Name, Address, email, Phone, & Organization to
dgardisser@icloud.com

Phone: +1(501) 676-1762

Send questions about class to either of the above email addresses.
If flying to Arkansas-Arrival airport—Little Rock AR (KLIT)

CARLISLE ARKANSAS - LODGING IN LONOKE ARKANSAS ~ 10 MIN FROM CARLISLE AND/OR WRK OF ARKANSAS LLC

Make your own reservations ASAP—prices subject to change.

Hampton Inn & Suites

240 Brownsville Loop, Lonoke AR 72086
(501) 676-0602 (\$107)

Holiday Inn Express

104 Dee Dee Lane, Lonoke AR 72086
(501) 676-7800 (\$120)

Best Western Plus

102 Dee Dee Lane, Lonoke AR 72086
(501) 676-8880 (\$114)

Days Inn by Wyndham

105 Dee Dee Lane, Lonoke AR 72086
(501) 676-5138 (\$70)

WRK

The Application Technology Specialists

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PAASS

Note: Dates are firm but some pgm content & presenters may vary.



OPERATION SAFE ANALYST CERTIFICATION TRAINING

ARRIVAL & REGISTRATION

Monday, Oct. 28, 2024

4:00-6:00pm Pre-registration—come by WRK to pick up packet and preliminary exam materials. *WRK Conference center 153 92nd W, Lonoke, AR 72086* Call Dennis if arriving after 6pm. +1 (501) 676-1762
All times/schedule may be adjusted as deemed necessary by class.

DAY 1, Tuesday, October 29, 2024

7:30 am Registration Training Office—WRK - Conference center

Coffee and Breakfast sandwiches each day

8:00 am Introductions

- Staff, guests, hosts, and attendees
- Agenda review
- Preparations for a calibration workshop
- Safety
- Etiquette
- Analyst liabilities
- Protocol
- String system components
- Setups PA, Drift, Swath displacement cards

8:30am Fly-In Preparation WRK Conference center

- Notebook and Flash Drive content

9:30 am Break (Coffee, Sodas, Water provided)

10:00 am Field Equipment Layouts Airport grounds

- Field equipment setup review and layout
- Drift setups
- Pattern setups
- Witness Cards, Novartis, Oil, Kromecote Samples
- Limitations
- Spread factors
- Image and paper quality
- Drop size
- Computer requirements
- Applications
- PA enhancements
- Drift



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- Canopy deposition
- Swath displacement
- Output discussion
- Examples
- VMD, V.1, V.9
- Plot
- Histogram
- Est. GPA
- % Area covered

11:30 am Morning Wrap & Discussion WRK Conference center
 12:00 pm Lunch (Lunch Provided) Catered lunch—WRK Conference center

1:00 pm Classroom discussion continues.

- Program Overview
- System Setup
- Test Data
- String Analysis
- Swath Determination
- Analyze Existing Files
- Printed Reports
- Spectrometer Compatible systems

2:05 pm Accupat Software and DropFlight Introduction

- Program Overview
- System Setup
- Test Data
- Data Entry
- Swath Determination
- Analyze Existing Files
- Printed Reports

4:30 Hands-On Applications WRK Conference center

- (String analysis— (2 string analysis units)
2 teams will analyze strings from previous fly-ins.
Obtain printouts (Passes, Average, Overlapped swaths)
- Card analysis 2 teams will analyze cards from previous fly-ins

5:30 pm Free Time to practice and catch up

~6:30 pm Dinner (Dinner provided) LTBD—Class will vote (Mex, Fish, or BBQ)



DAY 2, Wednesday Oct. 30, 2024

8:00 am Setup Equipment (Students) Meet at WRK Hangar

- Flight-line Collector & Data Systems
- Drift Tower - Flight Path discussion

8:30 am Discussion of Aircraft Setup

Booms

- Type
- Location
- Length
- Nozzles attachments
- Hangers
- Half boom shut off
- Tapered booms
- Bleed lines

Nozzle Types

- Sheet
- Straight stream
- Hollow cone
- Rotary
- Check valves
- Identification (type, size, etc.)

Aerodynamics

- Ground effect
- Prop wash
- Vortices
- Obstruction
- Wing tips

- Vortex generators

- Fairings

Aircraft Review

- Spray system component review
- Cockpit
- Flow controllers (A & B styles)
- GPS

- Racetrack

- Back and forth

- Quick racetrack

- Reverse racetrack

- Expand

- Squeeze

- Calibration

- Spreadsheet - ACCALIB

- USDA/ARS Model(s) review

- AgDrift

- WRK Granular system equipment, setup, and software review

10:00 am Break (Coffee, sodas, and water provided) WRK Conference center

10:20 am Homework exercise review

12:00 pm Lunch (Lunch provided) Catered

1:15 pm	<p>Pattern Anomalies</p> <p>Fixing aerodynamic pattern problems on fixed and rotary wing aircraft</p> <ul style="list-style-type: none"> • Prop wash • Hangars /obstructions • Vortices • Speed • Height • Wind direction • Leaks • Unexplained pattern problems ? Don't always look for the obvious! • Flowbrator and/or flow checks • Volume/drop size – what rate to check if operator is doing several tests.? 	WRK Conference center
3:00 pm	<p>Break</p> <p>(Coffee, sodas, and water provided)</p>	
3:20 pm center	<p>Wrap Up</p> <ul style="list-style-type: none"> • Review of course material • Review of procedure for analyst certification by NAAA 	WRK Conference
4:30 pm	<p>Final Exam and Course Evaluation</p> <p>(Passing grade will be mandatory for those wanting to be certified or recertified.)</p>	
6:30 pm	<p>Free time & Dinner on your own</p>	



DAY 3, Thursday, October 31, 2024

- 6:00 am Airport Setup Flightline (Students) Meet at Carlisle Municipal
- Flight-line System
 - Flight Data System
 - Drift Tower & Flight path
- ~7:00 am Aircraft Testing will begin
Students will conduct the pattern testing and operate all stations. Teams will rotate duty stations throughout the day, as determined by the Fly-in management. Team approach may be modified to meet number of students.
Initial duties will be:
- Station 1 Team 1 Carlisle Airport
- Briefing pilots
 - Overseeing loading operations
- Station 2 Team 2 Carlisle Airport
- Flight-line duties
 - Aircraft nozzle setup measurements
- Station 3 Team 3 WRK Hangar
- String analyses—Accupat
 - DropletScan, Accupat, DropVision analyses
 - Print outs & Pilot consultations
- 12:00 pm Lunch Avada Diner –Carlisle AR
- 1:00 pm Activities Resume
- Practice on software
 - Or unless Weather causes cessation of operations
- ?? :00 pm Repack Flight-line Equipment (Students)
Dinner on your own

~5:30 pm Group Discussion & Test Review
WRK Hangar—Carlisle Airport TBD

- Questions regarding day's operations
- Problems experienced
- Aircraft problems observed and suggested solutions
- General discussion of Analyst needs—how to stay current
- Review of pictures on CD
- Wrap up



TYPICAL S.A.F.E. CLASS ACTIVITIES



DAY 4, Friday November 1, 2024

6:00 am Setup Flightline (Students) Meet at Carlisle
Airport or Location TBD

- Flight-line Collector System
- Flight Data System

7:00 am Operation SAFE Fly-in Commences
Students will conduct the fly-in and operate all stations.
Teams will rotate duty stations throughout the day, as determined by the Fly-in management.

Station 1 WRK Hangar

- Briefing pilots
- Overseeing loading operations
- Flowbrator operations—flow checks discussion

Station 2 WRK Hangar

- Flight-line duties
- Field Deposition
- Aircraft configuration measurements

Station 3 WRK Hangar

- String analyses—Accupat
- Drop spectrum Scan analyses—DropletScan, Accupat, DropFlight
- Print outs & Pilot consultations

12:00 pm Lunch Provided Carlisle FBO

1:00 pm Pattern Analysis—Droplet Analysis/Continues

7:00 pm Fly-in Concludes
Dismantle flight-line and repack equipment (Students)

7:00 pm School De-brief, Dinner
LTBD (Location and timing to be Determined)



WRK OF ARKANSAS

PROGRAM PRESENTERS

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