

Aerial Roof Inspections Workshop

DARTDRONES



Elevate your career in aerial roof and structural inspections. Develop the skills you need to fly, gather, and analyze roof inspection data.

PREREQUISITES

5+ Hours of Flight Time

Not flying drones yet? Check out our drone pilot training courses at dartdrones.com.

Part 107 Certificate

Not FAA Certified to Fly Commercially yet? Check out our in-person or online Part 107 Test Prep courses.

WORKSHOP SCHEDULE

DAY 1

Roof Inspection Basics

- Lesson 1: Roofing 101
- Lesson 2: Intro to Aerial Roof Inspection
- Lesson 3: Aerial Roof Inspection Techniques

FLIGHT SESSION 1:

Manual Inspection Profiles

- Lesson 4: Capturing Quality Imagery
- Lesson 5: Managing Drone Emergencies

FLIGHT SESSION 2:

Camera Optimization/Emergencies

DAY 2

Advanced Operations

- Lesson 6: Preflight Planning
- Lesson 7: On-Site Assessment
- Lesson 8: Crew Coordination
- Lesson 9: Mapping & Modeling for Roof Inspection

FLIGHT SESSION 3

Roof Mapping

- Lesson 10: Intro to Thermal Imaging

FLIGHT SESSION 4

Thermal Imaging Demonstration

- Lesson 11: Using What You've Learned

AERIAL ROOF INSPECTIONS WORKSHOP CURRICULUM

LESSON 1

Roofing 101

- Residential Roof Components
- Common Residential Roofing Materials
- Commercial Roof Components
- Common Commercial Roofing Materials

LESSON 2

Intro to Aerial Roof Inspection

- Industry Uses
- Platform Considerations
- Payload Considerations

LESSON 3

Aerial Roof Inspection Techniques

- Types of Imagery Products
- Areas of Focus
- Manual Flight Profiles
- Common Manual Shots
- Determining the Shot List
- Sample Shot Lists

LESSON 4

Capturing Quality Imagery

- Environmental Impacts
- Image Framing
- Common Camera Settings
- Speciality Camera Settings

LESSON 5

Managing Drone Emergencies

- Flight Hazards Around Structures
- Common Drone Emergencies
- Recommended Emergency Responses

LESSON 6

Preflight Planning

- Utilizing Preflight Checklists
- Determining Airspace Requirements
- Evaluating Forecast Weather
- Performing a Site Evaluation
- Verifying Waiver Requirements
- Checking State & Local Regulations

LESSON 7

On-Site Assessment

- On-Site Assessment Checklist
- Evaluating Current Weather
- Identifying Hazards
- Determining Takeoff/Landing Points
- Adjusting the Flight Profile
- Updating Lost Link Settings

LESSON 8

Crew Coordination

- Determining Appropriate Crew Composition
- Camera Operator Responsibilities
- Visual Observer Responsibilities
- Visual Observer Placement
- Communication Methods
- Crew Briefing

LESSON 9

Mapping & Modeling for Roof Inspection

- Fundamentals of Mapping & Modeling
- Mapping Software Overview
- Utilizing Mapping Software for Roof Inspection

LESSON 10

Intro to Thermal Imaging

- Thermal Imaging Fundamentals
- Types of Thermal Payloads
- Thermal Roof Inspection

LESSON 11

Using What You've Learned

- What to Bring on a Job
- Sample Workflow
- Interacting with the Public
- Drone Job Resources

Contact Us Today | 800-264-3907 | info@dartdrones.com