



**PUBLIC SAFETY  
DRONE EXPO 2018**  
Police • Fire • Search & Rescue

## **UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS COURSE**

### **LOCATION:**

Peppermill Hotel; Tuscany D

### **COURSE LENGTH:**

Two days, 16 classroom hours.

### **DATE / TIME:**

Monday, October 1– Tuesday  
October 2, 2018  
0800 – 1700 hours each day

### **INSTRUCTORS:**

#### **CHIEF DON SHINNAMON**

Port St. Lucie (FL) Police Department  
(Retired)

*Chief Shinnamon currently serves as a public safety aviation consultant. He most recently served as the Chief of Police for the City of Port Saint Lucie, FL, retiring from public service in late 2010. Chief Shinnamon served as the chair of the Aviation Committee of the International Association of Chiefs of Police (IACP) for over 15 years. In 2008, he was selected to serve on the first FAA rule making committee to draft regulatory language to integrate small-unmanned aircraft systems into the national airspace system.*

*A certified police officer and firefighter, Chief Shinnamon holds a Master's degree from the University of Baltimore and completed a fellowship at Harvard University. He is a commercial pilot, rated in both helicopters and airplanes.*

**COURSE OBJECTIVES:** This course is designed to provide the student with a review of Small Unmanned Aircraft System (sUAS) start-up, missions and applications, FAA regulations, a review of the legal and privacy issues, management issues and all facets of starting and operating a successful program. The course is a must-have for agencies looking to start a sUAS unit. Success completion requires attendance at all 16 hours of classroom courses. **Maximum enrollment: 65**

**INTENDED AUDIENCE:** This course is intended for public safety personnel, researching the feasibility in starting a sUAS unit. In addition, the course is intended for management and supervisory public safety personnel who may oversee such a unit.

### **COURSE OUTLINE**

<b>DAY ONE</b>	<b>MONDAY, OCTOBER 1, 2018</b>	
0800 – 0830	Introductions & Course Review	Don Shinnamon
0830 – 0930	UAS Missions and Applications	Matt King / Coitt Kessler
0930 – 1030	Public Acceptance of sUAS	Tony Di Molina
1030 – 1200	FAR PART 107 Review and Regulatory Issues	Tony Di Molina
1200 – 1300	Lunch   On Own	
1300 – 1430	Aerial Searching Techniques	Matt King
1430 – 1600	Purchasing Decision	Coitt Kessler
1600 – 1700	Case Study – Dakota Access Pipeline Protests	Matt King

<b>DAY TWO</b>	<b>TUESDAY, OCTOBER 2, 2018</b>	
0800 – 0900	Managing a UAS Unit	Don Shinnamon
0900 – 1030	Response to Incidents Involving UAS/Drones	Scott May
1030 – 1200	Forensic Mapping	Andrew Klane
1200 – 1300	Lunch   On Own	
1300 – 1500	Supporting Technologies	Ben Miller / Coitt Kessler
1500 – 1630	Case Studies	Matt King / Coitt Kessler
1630 – 1700	Course Wrap-Up and Critiques	Coitt Kessler

## **AIRBORNE PUBLIC SAFETY ASSOCIATION / UAS OPERATIONS COURSE / INSTRUCTOR PROFILES:**

### **BENJAMIN MILLER**

Colorado Division of Fire Prevention and Control's Center of Excellence for Advanced Technology Aerial Firefighting

*Ben spent the first part of his career with 15 years of distinguished service at the Mesa County Sheriff's Office (MCSO). Ben was the founder and program director of the first operational unmanned aerial system (UAS) program for a non-federal public safety agency in the United States. During his tenure, Ben played a pivotal role in streamlining the Federal Aviation Administration's (FAA's) flight approval process for public safety agencies. Ben has offered guidance to other agencies across the country and continues his focus on the integration of UAS and instruction for public safety agencies in the United States. The MCSO UAS program has been featured in prestigious print media—such as National Geographic, Time, and Smithsonian Air & Space—and has been covered by numerous news organizations around the world, including Fox News, CNN, MSNBC, NPR, The New York Times, and The Washington Post.*

*Ben has more than 160 mission deployments and has flown many types of unmanned operations, to include flights over armed gunmen, crime scene reconstruction missions, search and rescue operations, and fire operations. Ben also had the opportunity to train game wardens in Namibia in support of their anti-poaching efforts.*

*Throughout the industry, Ben is regarded as a thought leader on the applications of small unmanned aircraft in public safety. His perspective has been shared in presentations across the United States and Canada, including testimony to the United States Senate Judiciary Committee, as well as to other members of Congress at both the state and national levels. His expertise has been sought by prestigious organizations—such as the National Aeronautics and Space Administration, the Federal Bureau of Investigation, the United States Secret Service, the United States Department of Justice, and the FAA's NextGen Institute—and numerous other entities in the unmanned aircraft space, including academia and industry.*

*Ben recently concluded a term on the Board of Directors for the Association of Unmanned Vehicle Systems International (AUVSI) and participates on committees throughout the nation, including ASTM International's Committee F38 on Unmanned Aircraft Systems.*

*Ben contributes to UAS advocacy efforts with input on policy activity at both the state and federal levels and maintains membership on AUVSI's advocacy subcommittee. Members of the subcommittee include such leaders of industry as Google, Amazon, Facebook, Lockheed Martin, Boeing, and Airbus.*

*In late 2016, Ben was asked to join the Public Safety Aviation Accreditation Commission subcommittee on public safety UAS accreditation standards.*

*Ben is the recipient of MCSO's 2011 Excellence Award and AUVSI's 2012 Member of the Year Award.*

*Ben is also a contributing author to the second edition of the textbook titled Introduction to Unmanned Systems.*

*Ben now works at the Colorado Division of Fire Prevention and Control's Center of Excellence for Advanced Technology Aerial Firefighting.*

### **SCOTT MAY**

Lexington (KY) Police Department

*Scott has been a member of the Lexington Police Department for over 25-years. Scott was instrumental in planning and starting his department's aviation unit, as he oversaw the acquisition of an OH-58 military excess helicopter, the aircrafts overhaul and re-furbishment and the start-up of the unit. Scott is an FAA Commercially rated helicopter and airplane pilot. He is also an FAA Safety representative and a part of the FAA FAAS Team. Scott has taught for APSA for several years and specializes in accident investigation and new-unit start-up.*

*Scott also successfully attended and completed the NTSB Aircraft Accident Investigation Course.*

### **COITT KESSLER**

Austin (TX) Fire Department

*Firefighter Coitt Kessler is the Program Manager for the Austin Fire Department's Robotic Emergency Deployment (RED) Team. He has over 17 years with the fire department and is currently assigned to the AFD Special Operation's Division. Firefighter Kessler is also a founding member and Master Instructor for the IAFF's Fire Ground Survival Program, Chairperson for Local 975's IAFF Wellness Fitness Initiative Committee, founding member of the Emergency Service Pipes and Drums Association (ESPADA), and proudly served our country for eight years with the US Military. He also represents public safety as a contributing member for several work groups and committees to include: the advisory group for the National Institute of Standards and Technologies (NIST) on Standard Test Methods for Response Robots; NFPA 2400 – Standard for Small Unmanned Aircraft Systems; the Public Safety Aviation Accreditation Commission for training and accreditation for UAS; National Council on Public Safety UAS; FEMA USAR Robotic Standards Group; and has recently contributed to the 2017 Congressional roadmap for unmanned systems.*

### **MATTHEW KING**

Cass County (ND) Sheriff's Office

### **TONY DI MOLINA**

Los Angeles County Regional Training Program

### **ANDREW KLANE**

Massachusetts State Police (Retired)