



# *FIRE AND EMERGENCY SERVICES*

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## *ENVIRONMENTAL PROFESSIONALS OF ARIZONA*

***"Accrediting our Emergency Management Services on  
the World Stage & in Arizona - An Air Force Fire  
Chief's Perspective"***

***Chief Todd Canale, MS, CFO, EFO, MIFireE***



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## *DAVIS-MONTHAN AFB*



**Community Profile**  
**Established in 1925**

**16 Square Miles**

**500 facilities**

**1,200 homes**

**Airport**

**Industrial Center/Mercantile**

**10,000 – 18,000 population**

**Approx 4K aircraft valued at \$51B**

**All Hazards Response Capability**

**Two Stations and 65 FF**

**800 – 900 Calls per Year**



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***355<sup>TH</sup> CIVIL ENGINEER SQUADRON***



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## *INTER-OPERABILITY*

- ***Base Agencies***
- ***Mutual Aid Agreements***
- ***Communications***
- ***Training***
- ***On-Site Incident Commander***
  - ***NIMS***
  - ***Spill Prevention Control Counter-Measure***
  - ***Environmental Response***
  - ***Contracted Clean-up (we can help through initial control)***
  - ***What type of expertise is in your jurisdiction?***



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## *FIRE SERVICE HISTORY*

***The fire service; yesterday, today, and tomorrow***

***Reactive versus Proactive Approach***

***The  
Air Force Fire Prevention  
Program***



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## *ACCREDITATION VS. CREDENTIALING*

- ***Accreditation – Process by which an association or agency evaluates and recognizes a program of study or an institution as meeting certain predetermined standards or qualifications. It Applies to institutions and their programs of study and their services.***
- ***Credential - Qualification, achievement, personal quality, or aspect of a person's background, typically when used to indicate that they are suitable for something.***



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## *THE ACCREDITATION JOURNEY*

***The importance of accreditation  
and the quality improvement  
process in the fire service.***

***(Commission on Fire  
Accreditation International)***



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## *THE CREDENTIALING JOURNEY*

**Executive Fire Officer**  
**(National Fire Academy)**

**Chief Fire Officer**  
**(Center for Public Safety  
Excellence)**



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## *QUALITY ENVIRONMENTAL PROFESSIONAL*

***The QEP is the first and only credential of its kind. It is a multi-media, multi-disciplinary, fully accredited credential that requires environmental professionals to see "the big picture" and to have the skills and knowledge to solve "real world problems".***





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## *CERTIFIED EMERGENCY MANAGER*

***The Certified Emergency Manager® (CEM®) is considered by many to be the top certification in Emergency Management. Created as a joint venture by FEMA and the IAEM, The CEM® was developed as a standard to recognize professional competency in emergency management across the nation. Since the creation of the CEM®, it has spread worldwide with the 1000th CEM® being certified within the last year.***



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## *CERTIFIED HAZARDOUS MATERIALS MANAGER*

***IHMM's accredited Certified Hazardous Materials Manager (CHMM) credential recognizes your expertise and opens new possibilities for you to make a significant impact on your community and your country. Corporations, universities and government agencies depend on the CHMM certification to identify hazardous materials professionals like you. By earning the CHMM credential, you join together with a community of over 16,000 of your peers who have demonstrated their personal commitment to professional excellence, and protecting the environment and the public's health and safety.***

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## *PROFESSIONAL ENGINEER*

***Professional licensure protects the public by enforcing standards that restrict practice to qualified individuals who have met specific qualifications in education, work experience, and exams. In the United States, licensure for the engineering and surveying professions is regulated by state. Candidates interested in pursuing licensure are encouraged to check the requirements in the state or territory where they plan to practice, as the requirements vary.***



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Questions?

## TODD CANALE, DAFC

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Todd Canale is the Chief, Fire Emergency Service (FES) Flight for the 355th Civil Engineer Squadron, Davis-Monthan Air Force Base, Arizona. The DMAFB FES is one of thirty internationally accredited AF fire departments within the Department of Defense through the CFAI. Chief Canale is directly responsible to the Base Civil Engineer for determining the resources required for the installation's overall fire emergency services program. He manages and oversees all aspects of the flight to include: fire protection & prevention, aircraft and structural rescue firefighting, hazardous materials response, mutual aid, initial emergency medical care, confined space rescue and mass casualty events. He Directs \$20M in FES resources and supervises a flight of 65 DoD career firefighters, both military and civilian, 24 hours a day, 7 days a week. He is also the co-founder and managing member of an Arizona real estate holdings company. Additionally, he continues to serve in the Air Force Reserve as a Liaison Officer for the Southwest Region of the Civil Air Patrol and teaches both fire science and leadership at Pima Community College, where he has been affiliated since 1999. Chief Canale started his fire service career in 1988 with the California Department of Forestry in Riverside, California. His work experience with the Davis-Monthan AFB FES spans three decades dating back to 1989 where he served as a firefighter in the USAFR. After being mobilized for both Desert Shield and Desert Storm, he moved to Tucson permanently in 1991. Since that time, he has served in every capacity of the department up to his current position as Fire Chief. Todd is the AF Representative for the Military and Federal Firefighter Committee of the IAFC and is a member of multiple groups to include the Phi Kappa Phi Honor Society, Arizona and Pima County Fire Chiefs Association, Arizona State Fire Marshals Training, Pima Community College Fire Science Advisory, and Pima County International Training Committee.

## CHANNAH ROCK, Ph.D.

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□ *Dr. Channah Rock is an Associate Professor at the University of Arizona in the Department of Soil, Water, and Environmental Science and also maintains a joint appointment as a Water Quality Specialist with UA Cooperative Extension. Dr. Rock is PI on several projects relating to microbial evaluation of water quality for the protection of public health as well as promoting water reuse as a safe and practical resource for the Southwest. Dr. Rock manages several projects related to water quality and the creation of tools for industry, serves as Past-President for WateReuse AZ, as well as chaired the ADEQ Recycled Water Rules Revision workgroup whose work rescinded the prohibition of potable reuse in the State of AZ in January of 2018.*