



# JOSEPH AVIATION CONSULTING



## **CAPTAIN J. F. JOSEPH COLONEL, USMCR (RETIRED)**

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### **JOSEPH AVIATION CONSULTING**

**josephaviationconsulting.com**

**jacaviation@cs.com**

## **CURRICULUM VITAE**

### **Positions Held**

<b>Civil:</b>	<b>Present-</b>	<b>Joseph Aviation Consulting-Aviation Consultant, Flight Department Leadership Auditor, Aviation Accident Investigator, and Aviation Expert Witness</b>
	<b>Present-</b>	<b>Partnership for Corporate Aviation Training (PCAT), Aviation Safety/Accident Investigator Instructor</b>
	<b>Present-</b>	<b>IS-BAO Auditor, Fixed-Wing Operations and Maintenance</b>
	<b>Former-</b>	<b>Deputy Director of Aviation, Texas Department of Transportation, (TxDOT) (Retired)</b> <ul style="list-style-type: none"><li>• Chief Pilot</li><li>• Director of Flight Services</li><li>• TxDOT UAS Research Program Manager</li><li>• Senior Member Aviation Accident Mishap Board</li><li>• Senior Member Aviation Safety Committee</li><li>• Senior Evaluator Pilot</li><li>• Senior Instructor Pilot</li></ul>

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**Former-**

**US Airways (Retired)**

- A319/320/321 Captain
- Fokker-100 Captain
- MD80, DC-9, Boeing 727 First Officer
- Airbus 319/320/321 Instructor Pilot
- Airbus319/320/321 Flight Standards
- Airbus 319/320/321 Flight Operations Quality Assurance (FOQA), Committee Chairman

**Military:**

**Present-**

**Colonel, United States Marine Corps Reserve (Retired)**

**Former-**

**Designated Naval Aviator**

- KC-130 Demonstration Pilot, Senior Marine, United States Naval Flight Demonstration Squadron-The Blue Angels
- Senior Air Wing NATOPS Evaluator and Instructor Pilot
- Senior Air Wing Weapons and Tactics Evaluator and Instructor Pilot
- Director of Standardization and Safety
- Aviation Safety Officer
- Air Wing Senior Inspecting Officer, Marine Corps Combat Readiness Evaluation System (MCCRES), 4th Marine Aircraft Wing
- United States Naval Academy Liaison Officer

**Flight Experience:**

**Over 50 Years and nearly 30,000 Flight Hours flown in more than 85 different models of aircraft.**

**Certificates:**

**Airline Transport Pilot:** (Airbus 319/320/321, Fokker-100, L-382, EMB-500) **Commercial, Multi-Engine, Instrument:** (ASMEI) **Certified Flight Instructor (MELCFII), Remote Pilot**

**Education:**

**Master of Science, Public Administration (M.P.A.) Troy State University, Troy Alabama, Florida Region, NAS Pensacola, FL, November 1983**

**Bachelor of Science, Aeronautical Studies/Flight Technology, Embry-Riddle Aeronautical University, Daytona Beach, FL, April 1975**

**Human Factors in Accident Investigation (HFAI) Southern California Safety Institute Long Beach, CA, February 2015**

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**IS-BAO Auditing Workshop (Certification),  
IBAC/PCAT**  
San Antonio, TX, **June 2014**

**IS-BAO Fundamentals Workshop, IBAC/PCAT**  
San Antonio, TX, **June 2014**

**Safety Management Systems (SMS), ATC Vantage  
LLC**  
Dallas, TX, **May 2009**

**US Airways Instructor Pilot Syllabus, A319/320/321)**  
**Charlotte Training Center**  
Charlotte, NC, **December 2002**

**US Airways Instructor Pilot Syllabus, A319/320/321)**  
**Charlotte Training Center**  
Charlotte, NC, **March-May 1999**

**US Airways Basic Check Airmen Training,**  
**Pittsburgh Training Center**  
Pittsburgh, PA, **May 1999**

**Naval Aviation Safety Officers Commanders Course,**  
**United States Naval Post-Graduate School**  
Monterey, CA, **February 1995**

**Weapons and Tactics Instructors Commanders  
Course, MAWTS 1, MCAS Yuma**  
Yuma, AZ, **May 1994**

**Defensive Tactics Instructors Course, MAWTS 1,  
MCAS Yuma**  
Yuma, AZ, **November 1993**

**Naval Aviation Safety Officer School, United States  
Naval Post-Graduate School**  
Monterey, CA, **January 1982-March 1982**

**Weapons and Tactics Instructors Course, MAWTS 1,  
MCAS Yuma**  
Yuma, AZ, **January 1981-March 1981**

**United States Marine Corps KC-130 FRS NATOPS  
Instructor/Instrument Evaluator Syllabus, MCAS  
Cherry Point**  
Cherry Point, NC, **September-October 1980**

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**United States Marine Corps KC-130 Transition Training, MCAS Cherry Point**  
Cherry Point, NC, **May-June 1978**

**United States Air Force C-130 Transition School, Little Rock Air Force Base**  
Little Rock, AK, **February-April 1978**

**United States Naval Aviation Training, NAS Pensacola, Pensacola, FL (Primary Flight Training). NAS Meridian, (Basic and Advanced Jet Training)**  
Meridian, MS, **July 1976-December 1977**

**United States Marine Corps, The Basic School, MCB, Quantico**  
Quantico, VA, **January-July 1976**

**United States Marine Corps, Officer Candidate School, MCB Quantico**  
Quantico, VA, **September-December 1975**

**Previous Employers:**

**Texas Department of Transportation (TxDOT)**  
Deputy Director of Aviation, Chief Pilot and Director of the Flight Services Section.  
**Austin, TX, August 2006-November 2019**

**US Airways**  
Captain/First Officer/Instructor Pilot. Boeing 727, DC-9, MD-80, FK-100, Airbus 319/320/321.  
**June 1986-August 2006**

**United States Marine Corps**

- **Fourth Marine Aircraft Wing**, Fourth Marine Aircraft Wing Headquarters, New Orleans, LA.
- **Marine Air Control Group 48, Marine Air Group 41, Marine Transport Refueler Squadron VMGR-234**, NAS Glenview, Glenview, IL and NAS JRB Ft. Worth, Ft. Worth, TX. **Marine Transport Refueler Squadron, VMGR-452**, Stewart Air National Guard Base, Newburgh, NY. **Qualifications:** KC-130 Aircraft Commander, NATOPS Evaluator and Instructor, NATOPS Instrument Evaluator and Instructor, Weapons and Tactics Instructor, Post Maintenance Functional Check Pilot and Refueling Area Commander.  
**January 1985-August 2004**

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**Naval Flight Demonstrations Squadron (The Blue Angels)**, NAS Pensacola, Pensacola, FL. KC-130 Demonstration Pilot, Officer in Charge Marine Detachment, Director of Standardization and Safety, Squadron Aviation Safety Officer. **Qualifications:** KC-130 Aircraft Commander, NATOPS Evaluator and Instructor, NATOPS Instrument Evaluator and Post Maintenance Functional Check Pilot.

**October 1982 to January 1985**

- **Marine Transport Refueler Squadron VMGR-252**, MCAS Cherry Point, Cherry Point, NC, **Marine Transport Refueler Squadron VMGR-152**, Futenma, Okinawa, Japan. **Qualifications:** KC-130 Aircraft Commander, NATOPS Evaluator and Instructor, NATOPS Instrument Evaluator and Instructor, Weapons and Tactics Instructor, Post Maintenance Functional Check Pilot and Refueling Area Commander.

**December 1977 to September 1982**

- **United States Naval Aviation Training Command:**  
Preflight Training, NAS Pensacola, Pensacola, FL.  
**VT-2** Primary Flight Training, NAS Whiting, Milton, FL.  
**Student Naval Aviator (Attack Jet Strike Syllabus)**  
**VT-19** Basic Jet Flight Training, NAS Meridian, Meridian, MS.  
**VT-7** Advanced Jet Flight Training, NAS Meridian, Meridian, MS  
**July 1976 to December 1977**

- **United States Marine Corps Officer Candidate/The Basic School**, MCB Quantico, Quantico, VA.  
**September 1975 to July 1976**

**Embry-Riddle Aeronautical University**

Daytona Beach, FL-Flight Instructor  
(Private-Commercial).

**August 1974 to June 1975**

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### **Professional Affiliations:**

- International Society of Air Safety Investigators (ISASI)
- Human Factors and Ergonomics Society (HFES)
- National Business Aircraft Association (NBAA)
- International Business Aircraft Operations (IS-BAO)
- International Business Aviation Council (IBAC)
- Partnership for Corporate Aviation Training (PCAT)
- National Air Transportation Association (NATA)
- Airline Pilots Association (ALPA)
- Blue Angels Alumni Association
- Aircraft Owners and Pilots Association (AOPA)
- Experimental Aircraft Association (EAA)

### **Operational Experience:**

1. **Aviator:** I possess over fifty years of world-wide piloting experience in high-performance military, large transport category, and general aviation aircraft. Operational expertise includes domestic and vast international all-weather exposure. As an aviator, I have accumulated nearly 30,000 flight hours in more than 85 models of aircraft while operating in the capacity of a military pilot (Naval Aviator), airline pilot, and general aviation pilot. As an Instructor Pilot/Evaluator Pilot (general aviation, military, and air carrier), I have over forty-six years of experience, during which time I have instructed and or evaluated thousands of pilots in varying capacities.
2. **United States Marine Corps (USMC) Colonel and Naval Aviator:** I completed a nearly thirty-year career in the United States Marine Corps. As a Weapons and Tactics Instructor, I planned, staffed or evaluated hundreds of military aviation operational exercises. As the Senior Evaluator for the Fourth Marine Aircraft Wing (MAW), I was directly responsible for evaluating unit combat readiness, pilot/aircrew performance, and the effectiveness of training for all tactical aviation elements within the Air Wing. Most notably, I was honored to have been selected and serve as the Senior Marine, Aviation Safety Officer and KC-130 Demonstration Pilot for the *Blue Angels*. During my military career I served in the capacity of:
  - United States Marine Corps Senior Air Wing *Combat Readiness Evaluator*
  - United States Marine Corps Senior Air Wing KC-130 *NATOPS Evaluator/Instructor*
  - United States Marine Corps Senior Air Wing KC-130 *Instrument Evaluator/Instructor*
  - Selected and designated as the first KC-130 *Weapons and Tactics/Instructor Pilot graduate*, of Marine Aviation Weapons and Tactics Squadron One (MAWTS-I),
  - United States Marine Corps Marine Air Group/Squadron *NATOPS Evaluator/Instructor*
  - United States Marine Corps Marine Air Group/Squadron *Instrument Evaluator/Instructor*
  - United States Marine Corps Marine Air Group/Squadron *Director of Standardization and Safety*

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- United States Marine Corps Air Group/Squadron *Aviation Safety Officer*
  - United States Marine Corps Air Group/Squadron *Aircrew Training Officer*
  - United States Marine Corps Air Group/Squadron *Aircraft Mishap Board (Senior Member)*
  - United States Marine Corps Air Group/Squadron *Aviator Human Factors Board (Senior Member)*
  - United States Marine Corps Air Group/Squadron *Instrument Flight Board (Senior Member)*
  - United States Marine Corps Air Group/Squadron *Flight Standardization Board (Senior Member)*
  - United States Marine Corps Squadron *Executive Officer*
  - United States Marine Corps Squadron *Operations Officer*
  - KC-130F, R, T and T-30 *Aircraft Commander*
3. **Aviation Standardization and Operations Supervisor:** Over the past forty years I have developed or administered both policy and protocol in military, air carrier and general aviation flight departments to include:
- **Military:** USMC Senior Evaluator/Instructor, Executive Officer and Operations Officer, Director of Standardization and Safety
  - **Air Carrier:** US Airways Instructor/Management Pilot
  - **General Aviation:** Texas Department of Transportation Deputy Director of Aviation, Chief Pilot, Flight Services Section Director
  - Flight Operations Standardization
  - Flight Crew Evaluation
  - Flight Operations Quality Assurance (FOQA)
  - Flight Data Management (FDM)
  - Human Factors
  - Risk Management
  - Safety Management Systems (SMS)
  - Cockpit/Crew Resource Management (CRM).
  - Flight department and pilot training/curriculum development.
4. **Flight/Aircraft Maintenance Department Director/Supervisory Pilot (General Aviation):** Since 2006, I concurrently served as the Deputy Director of Aviation, Chief Pilot, and Flight Services Section Director for the *Texas Department of Transportation (TxDOT)*. In this capacity and under my direction, I was directly responsible for the safe, efficient and effective operation of the largest state operated aircraft maintenance facility in the United States. The Texas Department of Transportation Flight Services Section maintains and operates flight operations in support of official state business. As the designated change agent for the State of Texas and the Texas Department of Transportation, I assembled a team of aviation professionals which transformed the state's Flight and Aircraft Maintenance Departments from an annual \$950,000 deficit into a consistent profit center.

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Because of the operational efficiencies, and overall fleet readiness, TxDOT Flight Services as an entity, became nationally recognized as the “model manager” for state operated fleets. In addition to becoming consistently fiscally solvent (on revenues in excess of \$9 million annually), the state’s flight and aircraft maintenance operations have achieved an envious and unparalleled aviation safety record.

In 2019, I successfully authored and implemented an Aircraft Fleet Replacement Plan for the State of Texas and its entire respective aircraft fleet. The adoption of this plan by the state government, resolved substantial safety, economic and operational issues which stemmed from a pre-existing and aggressive “aging” aircraft fleet problem. In the Fleet Replacement Plan, a defined set of operational and economic metrics were developed which resulted in the selection of a “rationalized” aircraft fleet to include type, model and size of the fleet. Once this plan was adopted, I provided subject matter expertise during procurement negotiations. Subsequent to completion of the aircraft acquisition, I developed and am directly responsible for fleet integration, pilot and maintenance training and the implementation of formal cost model protocols. This “fleet” acquisition is an historical first, both in concept and scope for state government.

5. **Supervisory Pilot (Air Carrier):** As an Instructor/Management Pilot at *US Airways*, I participated in the initial integration of a new fleet type (which at the time, it was the largest commercial aircraft purchase in aviation history), and assisted in the development of initial and recurrent training curricula, while concurrently serving on the Flight Standards Committee. Additionally, I chaired the US Airways Airbus Fleet Flight Operations Quality Assurance (FOQA) Committee.
6. **Supervisory Pilot (Military):** Served as the Senior Pilot/Aircrew Combat Readiness Evaluator (MCCRES) for the entire *United States Marine Corps Fourth Marine Aircraft Wing*.
7. **Aviation Safety Manager/Accident Investigator:** I possess over thirty-eight years as a formally trained (*United States Naval Post-Graduate School*, Aviation Safety Officer Curriculum) Aviation Accident Investigator. In this capacity, I have investigated hundreds of aviation accidents or incidents. I am also a trained International Standard for Business Aircraft Operations (IS-BAO) Fixed-Wing Operations/Maintenance Auditor.
8. **Aviation Expert:** For the past twenty-eight years, I have owned and operated *Joseph Aviation Consulting*, offering consulting, accident investigation and expert witness services to aviation, legal and insurance entities. In these capacities, I have represented numerous high-profile clients to include: “Fortune 50” Corporate Flight Departments, American Airlines, United Airlines, and Pratt & Whitney of Canada. My expert witness testimony has been offered in Federal Court as a subject matter expert in pilot performance and flight operations. My opinions and expertise in aviation related matters have been featured by appearances in international and nationally syndicated news outlets to include The Discovery Channel, NATGEO, Wharton Business Radio and the Smithsonian Channel.