

DR. MICHAEL J. DREIKORN
CURRICULUM VITAE

09/11/2014

Name: Michael J. Dreikorn, Ed.D.
Address: 5697 Bay Point Rd., Bokeelia, FL 33922
DoB: 08/05/1961
Citizenship: USA



Area of Expertise:

With over 34 years of industry experience, Dr. Michael Dreikorn has unique capabilities to provide leadership and technical investigation into complex issues related to quality and regulatory compliance in design, production, maintenance, supply-chain, certification and knowledge-management in the Aviation, Space, Defense, and regulated high-tech industries.

Education:

Doctorate of Education in Human Resource and Organizational Development; The George Washington University, Washington, D.C. (2009)

Dissertation: Exploring the application of process mapping in the ontological engineering of a body of knowledge for the supplier quality engineer profession.

UTC Executive Program (Certificate); Darden School of Business, University of Virginia, Charlottesville, VA (2002)

Masters of Science in Management; Friends University, Wichita, KS (1994)

Thesis: Developing a model of harmonization: ISO9000 and the Federal Aviation Regulations.

Bachelor of Science in Professional Aeronautics; Embry-Riddle Aeronautical University, Daytona Beach, FL (1988)

Employment:

2002 – Present

PRESIDENT

The IPL Group, LLC; *Aerospace and Defense Consulting, Auditing, Training, and Engineering* (Bokeelia, FL)

Executive in-charge of the organizational and business development of a program management, engineering, consulting, training, and auditing firm to the aviation, space, and defense industry. Responsible for all services and products provided to

clients of the firm. Examples of products and services include: development of a design control and production systems for cargo conversions of large-commercial aircraft; execution of supplier quality management and technical process risk assessments and audits for major aerospace manufacturers (over 200 assessments/audits per year); valuation of intellectual properties for acquisition; design and deployment of professional classroom and e-learning training systems; and certification support of various aviation, defense, and nuclear products.

The diversity of products and services requires the ability to rapidly understand new and evolving technologies and applications; network with industry experts to identify possible solutions and leverage common resources; manage fiscal and human resources to leverage execution of parallel projects; negotiate contracts with suppliers and customers; and expert knowledge of the aviation, space and defense industry.

2004 – Present

EXECUTIVE DIRECTOR

The Aerospace and Defense Learning Institute (ADLI), AS&D Professional Knowledge Management (Bokeelia, FL)

The ADLI is the developer and custodian for the aviation, space and defense (AS&D) industry's professional body of knowledge (BoK). In response to an industry need for structure and process control over the AS&D industry's professional knowledge base, Michael Dreikorn led an international development team to establish a process that accurately defines the knowledge needs of the industry and aligns such to business processes and professions. This effort was accomplished through internal funding methods, ensuring control over rigor and accessibility. The ADLI offers the AS&D Quality BoK free-of-charge at its website, utilizing a wiki-based solution. Dreikorn also led the development of knowledge management standard (KMS) 100001:2011, as well as other professional standards. ADLI's BoK is consistent with ICAO document 9941 (Trainair Plus).

2009 – Present

PRINCIPAL PARTNER

ASD Experts; Expert Litigation Support for the AS&D Industry (Bokeelia, FL)

ASD Experts is a full-service litigation support organization that serves the Aviation, Space, and Defense (AS&D) industry. The primary support focuses on complex regulatory compliance, quality, design, production, tooling, supplier controls, personnel training, management systems, contracts, airworthiness, maintenance, records, flight operations, airport operations and international aviation.

As principal partner, Dreikorn aligns professional resources to client needs, oversees quality of work product, manages budgets and schedules, and ensures responsive communications with clients. Dreikorn conducts many of the investigations and regularly testifies in federal and state courts and arbitration hearings.

1998 – 2002

VICE PRESIDENT QUALITY ASSURANCE AND PRODUCT INTEGRITY/REGULATORY COMPLIANCE

Pratt & Whitney; *Aircraft Engines and Space Propulsion* (Hartford, CT)

Executive responsible for the compliance of the design, production and repair systems and product conformance of turbine propulsion systems at Pratt & Whitney and its extended supplier base. Managing an annual organizational budget of \$26-million and a direct professional workforce of over 400, provided quality, supplier control, and laboratory services to ensure the effective program execution of new and existing product lines. Examples include the production support of the RL-10 rocket motor; development and testing of the F-135 engines for the Joint Strike Fighter (F-22 and F-35); and development, production, and certification support for the PW6000 turbo-fan for Airbus and Boeing installations, as well as various other engine models. Dreikorn was a member of the organizational safety board and material review board and was the ultimate organizational authority for airworthiness determination.

Dreikorn was responsible for management system compliance to AS9100 and customer/government requirements, performed as company liaison with airline and military customers, as well as, with various regulatory agencies, and ensured organizational resources were capable of meeting business needs. As part of developing a world-class workforce, Dreikorn led company efforts to define business-based knowledge and skill requirements, conduct measurement of existing talent, and develop solutions to fill identified gaps.

1995 – 1998

ASSISTANT DIVISION MANAGER, PRODUCTION AND AIRWORTHINESS (AIR-201)

Federal Aviation Administration; *USA civil aviation authority* (Washington, D.C.)

As Assistant Division Manager, of the FAA's Production and Airworthiness Division (AIR-201), Dreikorn was responsible for supporting the division manager in the development of policy and regulation related to aircraft design and production systems for the U.S. civil aviation industry. Responsibilities included, managing organizational budget of this headquarters role, which also provided core resources to the various regional and field offices. These resources included the development of central IT solutions; training of the professional workforce; and development of an IS9001 compliant management system.

While at the FAA, Dreikorn managed the national production surveillance program (ACSEP). This entailed establishing an annual risk-based evaluation schedule; assignment of audit resources; performance of risk-response audits; analysis of evaluation data; and development and publishing of an annual industry evaluation report. In efforts to harmonize production oversight practices, Dreikorn assisted the civil aviation authorities of Brazil, Israel, France, and UK in the deployment of their own national production oversight programs.

1995 – 1995

DIRECTOR QUALITY AND OPERATIONS

Edge Technologies; Advanced Positioning/Sensor Systems (Ames, IA)

As the Director of Operations and Quality for a high-tech micro-positioning research and development organization, Dreikorn was responsible for the development of production methods, quality control processes, development and compliance of management systems, and the commercialization of products. The products utilized rare-earth magnets to establish micro-positioning qualities for application in space, aviation, defense, intelligence, automotive, and printing industries.

1991 – 1994

DIRECTOR QUALITY AND OPERATIONS

Buderus Sell Aviation; Commercial Aircraft Interior Structures (Wichita, KS)

Dreikorn was responsible for the development of design, production, and quality systems for the green-field start-up and full-production operations of a European commercial aircraft interior manufacturer. As a member of a two-member executive team, located and constructed production facilities to enable cost-effective production of European designs in the United States. Dreikorn, ensured facility construction met production flow and rate requirements, ensure the design and production of manufacturing and test equipment were conforming and delivered on-time and within budget, ensure knowledge transferred was successfully delivered to new-hire staff and professional personnel, and ensure that product production and inspection/test processes were capable and efficient.

Within 12 months of site selection, the organization obtained Boeing and FAA production approval. Within 18 months, the organization received certification as an FAA-approved 14 CFR 145 repair station. Within 24 months, the organization received the Boeing President's Award for 100% on-time delivery with 100% quality.

1987 – 1991

QUALITY SECTION MANAGER/QUALITY PROCUREMENT SPECIALIST

McDonnell Douglas Aircraft; T-45 and Commercial Programs (MD-90/MD-11) (Long Beach, CA and Switzerland)

While at McDonnell Douglas, Dreikorn performed as a Section Manager in Development Quality of the T-45 jet-trainer aircraft and as a Quality Procurement Specialist for commercial programs in central and northern Europe. As Section Manager, Dreikorn was responsible for program quality through development and flight testing. This required the ability to lead a team of quality inspectors and quality engineers in the planning and deployment of product verification and validation methods and alignment of professional skill sets. These included the planning of tool control methods, performance of first article and conformity inspections, management

of material review activities, oversight and performance of validation tests such as drop and test flight, and coordination with onsite AFPRO/NAVPRO representatives.

As Quality Procurement Specialist, stationed in Europe, Dreikorn was responsible for the product and system compliance of 36 suppliers in 12 countries and the coordination of technical resources to ensure on-time quality delivery. In addition to traditional quality methods, Dreikorn was also responsible for FAA product certification, monitoring of export controls, ensuring compliant technology transfer, and supplier cost compliance.

1987 – 1987

QUALITY ENGINEER

Northrop Electronics Division; MX Missile Program (Hawthorne, CA)

As a quality engineer in a class 1000 clean room environment, performed product verification activities on the guidance system of the ICBM MX (Peacekeeper) missile.

1983 – 1983

HELICOPTER MECHANIC

Airspur Helicopters; Westland 30 commuter helicopter operations based at LAX (Los Angeles, CA)

As a certified airframe and powerplant mechanic, Dreikorn conducted light and medium maintenance and repairs on commuter helicopters operating between LAX and regional airports. In this role, Dreikorn also provided ramp support, including baggage control and aircraft refueling.

1980 – 1987

NONCOMMISSIONED OFFICER IN CHARGE (NCOIC)

US Army; Helicopter Operations, Maintenance, and Inspection (W. Germany)

Served over 7 years in the U.S. Army, mostly in West Germany (1st Armored Division), performing the responsibilities of helicopter mechanic, crew chief, and technical inspector on OH-58A, UH-1H, and AH-1 helicopters. Dreikorn was also responsible for providing leadership, as the non-commissioned officer in charge, of a remotely located flight detachment. Management and leadership responsibilities included planning and performance of routing and phased maintenance, planning and control of parts inventory and fuel, coordination of flight planning, and ensuring organizational skills were appropriately aligned to assigned tasks. While in the Army, Dreikorn attended various technical schools and leadership courses, including the noncommissioned officer academy.

Certificates:

Federal Aviation Administration: Airframe and Powerplant Mechanic (1983 - Present)

Federal Aviation Administration: Inspection Authorization (1987 - Present)

Federal Aviation Administration: Designated Airworthiness Representative – Unlimited Manufacturing Ratings (DAR) (2003-2008)

International Register of Certificated Auditors: Lead Auditor – Aerospace Quality Management Systems (1993-1999)

International Civil Aviation Organization (ICAO): Trainair Plus Certified Training Developer (2013 – Present)

US Department of Labor: Journeyman Helicopter Mechanic (1986 - Present)

Special Appointments:

Appointed by the Secretary of the Navy to the Expert Consulting Team to the Secretary of the Navy Advisory Committee to Investigate U.S. Navy Acquisition Processes (2009)

Leader of Blue Ribbon Investigation Panel for the Lycoming Engines Crankshaft Failures (2002-2005)

Professional Awards:

Fellow: American Society for Quality (2013)

The William Goeller Award of Excellence: American Society for Quality, Aviation, Space & Defense Division (03/2009)

Service Award: International Aerospace Quality Group (2004)

Various military medals and awards: U.S. Army (1980-1987)

Listing of Publications:

- The Standard of Knowledge for the Aviation, Space and Defense Industry Quality Practitioner: The AS&D Quality Body of Knowledge (BoK): Version 1 (The CPK Publishing, 2012) Book
- Development and Sustainment of Process-Based Ontological Engineering based Bodies of Knowledge: KMS 10001:2011 (The Center for Professional Knowledge, 2011) Standard
- The Aviation, Space and Defense Industry Quality Body of Knowledge (BoK) – General Narrative of the AS&D Quality Profession: ADLI-Q001:2011 (The Aerospace and Defense Learning Institute, 2011) Standard
- What's on the horizon: More changes in the air for the U.S. aviation industry (Quality Progress, November, 2009) Journal Article

- Exploring the application of process mapping in the ontological engineering of a Body of Knowledge of the Supplier Quality Engineer profession (The George Washington University, December 5, 2008) Dissertation
- Operationalizing Communities of Practice (Chief Learning Officer, October 2007) Journal Article
- The Synergy of One: Creating High Performing Sustainable Organizations through Integrated Performance Leadership; (Quality Press 2004) Book
- Turbulence Forecasted for AS&D Industry: (Quality Progress, March 2004) Journal Article
- ASQ Comment on Columbia Shuttle Accident Report (Quality Progress, September 2003) Journal Article
- Aviation Industry Quality Systems: ISO9000 and The Federal Aviation Regulations; (Quality Press/TSI, 1995) Book

Listing of Major Conference Presentations:

- Personal Responsibility for Professional Growth and Performance; The American Society for Quality Technical Communities Conference; Orlando, FL (Oct 2014)
- Identifying and Managing Risk in the Aviation and Aerospace Industry: Evolving Compliance Challenges; Product Liability Conference of the Defense Review Institute; Las Vegas, Nevada (Apr 2012)
- Understanding and Managing Changes in the Aviation Industry; The 18th International Conference of the Israel Society for Quality (Nov 2010); Tel Aviv, Israel
- “The Synergy of One” as it Applies to the Aerospace Industry; 17th Annual International Conference on ISO 9000 (Mar 2009); Orlando, Florida
- The Ageing AS&D Workforce: Developing a Process-Based Body of Knowledge for the AS&D Industry; 2008 Conference on Quality for the Space and Defense Industries (Mar 2008); Cape Canaveral, Florida
- Leading in a Climate of Change (Keynote Address); American Society for Quality – Management Division Conference (Feb 2008); Orlando, Florida
- Managing Value Stream Risk; Society of Automotive Engineers AeroTech Congress (Sep 2007); Los Angeles, California
- Applying Root Cause and Corrective Action in the Aerospace and Defense Industry; NASA Quality Leadership Forum (Mar 2007); Cape Canaveral, Florida
- Developing an Industry Certification Scheme: An update to the Development of the Aviation, Space & Defense Body of Knowledge ; 2007 Conference on Quality for the Space and Defense Industries (Mar 2007); Cape Canaveral, Florida
- Integrating Reliability and Building a Safety Culture: Systems and People; 2006 Aviation Week Lean Six Sigma Forum (Nov 2006); Phoenix, Arizona

- Managing Knowledge in the Aviation, Space, and Defense Industry; NASA Quality Leadership Forum (Sep 2006); Los Angeles, California
- The Aviation, Space & Defense Body of Knowledge; 2006 Conference on Quality for the Space and Defense Industries (Mar 2006); Cape Canaveral, Florida
- Body of Knowledge for the Quality Practitioner; American Society for Quality World Quality Congress (May 2006); Milwaukee, Wisconsin
- Integrated Knowledge Management; American Society for Quality World Quality Congress (May 2005); Seattle, Washington
- Waiting for the Right Queue: Cultivating a Quality Culture That Could Keep The Maritime Industry Afloat; American Society for Quality World Quality Conference (May 2005) Seattle Washington
- Leading for Performance; Korea 2005 International Aviation Symposium (May 2005); Seoul, Korea
- Applying AS9100B; NASA Quality Leadership Forum (Dec 2004); Lake Buena Vista, Florida
- Cost Effectiveness and Productivity: Focusing on Safety, Reliability, Maintenance and Cost Effectiveness in Today's Environment (Panelist); 2004 Civil Aviation Safety Symposium (Sep 2004); Dallas, Texas
- Leading for Integration; 2004 Civil Aviation Safety Symposium (Sep 2004); Dallas, Texas
- VISION Process, Centers, and Networks; American Society for Quality World Quality Congress (May 2004); Toronto, Canada
- The Synergy of One; American Society for Quality – Management Division Conference (Mar 2004); Orlando, Florida
- Introducing Integrated Performance Leadership; American Society for Quality World Quality Congress (May 2003); Kansas City, Missouri
- Leading for Sustainable Performance; American Society for Quality – Flight into the Future Conference (Oct 2003), Van Nuys, CA
- Achieving Competitive Advantage; 7th Annual Florida Sterling Quality Conference (Jul 1999); Orlando, Florida

Professional Affiliations

- American Society for Quality: Fellow (1993-present)
 - Aviation, Space & Defense Division: Board Member (1996-2006); Chairman (2001-2006); Executive champion for the Body of Knowledge (BoK) development project (2005-2009); Education Chair (2006-present)
- Performance Review Institute – Nadcap (SAE): Board Member (1998-2002)
- KPMG Quality Registrar: Technical Advisory Committee (1996-2002)

- International Aerospace Quality Group – Founding Council Member (1998-2002); Member (1998-present)
- The Aviation, Space & Defense Learning Institute – Founder/Executive Director (2005–present)
- Society for Organizational Learning (at MIT): Founding Research Committee Member (1998-2002); Member (1998-2009)
- Government and Industry Quality Liaison Panel: FAA representative for implementation of Single Process Initiative (1996-1998)
- American Institute for Aeronautics and Astronautics: Senior Member (1993-present)
- Aeronautical Repair Station Association: Member (2004-present)
- Society for Automotive Engineers: Member (2007-present)
- Professional Aircraft Mechanics Association: Member (1987–present)
- Society of Naval Architects Quality Committee – Founding Member (2010-present)

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