



CURRICULUM VITAE

Joseph DeMaria, Ph.D., CFC, CSHM, CHCM, DACFEI, MIIRSM Principal Forensic Safety Consultant

PROFILE

Dr. DeMaria is a self-motivated business professional with multiple college degrees, national board certifications and a respected 40+ year career in the Occupational Health and Safety (OHS) profession.

Dr. DeMaria has set the standard for excellence in providing targeted OHS worksite, project and management consultations to business and industry, and assistance to the legal profession in the performance of forensic safety consulting. Many diversified companies have been provided clear and documented direction for mitigating OHS risk, managing regulatory compliance and for encouraging a positive safety culture.

Dr. DeMaria is certified in U.S. Federal and district courts as an expert in the field of Occupational Health and Safety Engineering. Elected and currently serves on the Board of Directors for the Institute for Safety and Health Management.

QUALIFICATIONS SUMMARY

- Provides court-qualified expert witness opinions and testimonies in plaintiff and defense legal cases
- Provides OHS technical guidance directed towards elimination of risk, including hazardous chemical use and waste removal
- Develops the application of site specific OHS regulatory policies, procedures and processes to mitigate fines and penalties
- Conducts mishap investigations, prepares detailed reports and recommends and monitors corrective actions
- Facilitates root cause analyses of significant injuries, incidents and property loss to prevent recurrence
- Provides targeted OHS training to ensure worker safety and to reduce employer workers' compensation claims
- Communicates behavior-based safety management programs and principals to forge a long-lasting safety culture
- Performs Job Hazard Analysis and tracks OHS injury and illness data to uncover adverse trends and related metrics
- Performs ergonomic assessments and provides technical guidance to employees to minimize musculoskeletal injuries
- Reviews introduction of new workplace chemicals to ensure controls and best practices are established prior to use

SKILLS SUMMARY

- **US Regulatory Standards**
 - US Department of Labor (DOL), Occupational Safety and Health Administration (OSHA)
 - 29 CFR 1910 – OSHA General Industry Regulation
 - 29 CFR 1926 – OSHA Construction Industry Regulation
 - US Department of Energy (DOE) 10 CFR 851 – DOE Worker Safety and Health Program
 - US Department of Justice (DOJ) 28 CFR Part 36 – ADA Standard for Accessible Design
 - US Environmental Protection Agency (EPA) 40 CFR – Protection of the Environment Regulation
 - US Department of Transportation (DOT) 49 CFR – Transportation Regulation
- **US National Consensus Standards and Best Practices**
 - American National Standards Institute (ANSI) Standards
 - National Fire Protection Association (NFPA) 101 – Life Safety Code
- **International Standards**
 - Institute of Electrical and Electronics Engineers (IEEE) – National Electrical Safety Code (NESC)
 - International Organization for Standardization (ISO) 14001 – Environmental Management Systems
 - International Organization for Standardization (ISO) 31000 – Risk Management
 - International Occupational Health and Safety Management System – OHSAS 18001

CERTIFICATIONS AND DESIGNATIONS

- Certified Forensic Consultant (**CFC**), Americana College of Forensic Examiners Institute – Serial No. 22024
- Certified Safety and Health Manager (**CSHM**), Institute for Safety and Health Management – Serial No. 1622
- Certified Hazard Control Manager (**CHCM**) – International Board for Certification of Safety Managers – Serial No. 2617
- Diplomat, American College of Forensic Examiners Institute (**DACFEI**) – Serial No. 22024
- Member, International Institute of Risk and Safety Management (**MIIRSM**) – Serial No. 201956 (European Union)
- Authorized OSHA Outreach Trainer – Completion of OSHA 500 and 501 Courses
- Certified, Hazardous Waste Operations and Emergency Response (HAZWOPER)
- Qualified Expert Witness – State of Nevada (NRS 50.275) District Court, and U.S. Federal Court (Fed. R. Evid. 702)

PROFESSIONAL ASSOCIATIONS

- American College of Forensic Examiners Institute (ACFEI)
- American Society of Safety Engineers (ASSE)
- Institute for Safety and Health Management (ISHM)
- International Board for Certification of Safety Managers (BCHCM)
- International Institute of Risk & Safety Management (IIRSM) – European Union
- National Safety Council (NSC)

EDUCATION

Ph.D. – Occupational Safety and Health Engineering – Honors: Magna cum Laude
Columbia Southern University – Orange Beach, Alabama

M.A. – Management – Honors: Magna cum Laude
Webster University – St. Louis, Missouri

B.Sc. – Professional Aeronautics – Honors: Magna cum Laude
Embry-Riddle Aeronautical University – Daytona Beach, Florida

ANCILLARY EDUCATION

- Certified Forensic Consultant Training
- OSHA #503: Update Instructor in Occupational Safety and Health for the General Industry
- National Fire Protection Association – Life-Safety Code Course
- OSHA #500: Outreach Instructor in Occupational Safety and Health for the Construction Industry
- OSHA #501: Outreach Instructor in Occupational Safety and Health for the General Industry
- Applied Ergonomics/Human Factors Seminar
- National Fire Protection Association – Life-Safety Code Course
- Supervisor Training in Accident Reduction Techniques (START)
- National Fire Protection Association – Electrical Safety Course
- National Fire Protection Association – Life-Safety Code Course
- Hazardous Waste Operations Course/Certification
- FAA Basic and Advanced Airport Safety Operations Course
- Permit-Required Confined Space Course
- Human Factor / Systems Safety Engineering Course
- Applied Hazards / Human Reliability Analysis Course
- OSHA Accident Investigation Course #202a
- Ground Safety Management Course, University of Washington, College of Engineering
- US Air Force Inspection Qualification School
- Architectural Blueprint Reading Course, City College of Chicago
- OSHA Electrical Standards Course #203
- OSHA Construction Standards Course #200

SECURITY CLEARANCES – US Department of Defense (DOD)

- Top Secret (TS), Level III – Inactive
- Single Scope Background Investigation (SSBI) – Inactive
- Sensitive Compartmented Information (SCI) – Inactive

PROFESSIONAL EXPERIENCE

1996 – Present **Americana Safety Associates, LLC – Las Vegas, Nevada**
President & CEO, Principal Forensic Safety Consultant

- Provides forensic safety engineering consult expertise as an expert witness to plaintiff and defense attorneys in select premises liability and personal injury cases. Provides safety consulting services to businesses to ensure regulatory compliance with applicable OSHA, national consensus safety standards, and industry best practices.

Noteworthy accomplishments:

- 1) Qualified as an expert witness in “Occupational Health & Safety” by U.S. Federal and state district courts.
- 2) Author of 4 books on OSHA compliance topics, 30+ safety programs, and 60+ safety training presentations.
- 3) Invited guest speaker for OHS issues on FOX-TV Network News and several local Las Vegas, NV television stations.
- 4) Inducted into Worldwide Who’s Who for Excellence in Occupational Safety and Health Engineering.
- 5) Invited to Washington D.C. to brief members of Congress on our joint concerns for the safe collection, recovery and disposal of mercury, a potent neurotoxin from spent Compact Fluorescent Lamp (CFL) and linear fluorescent lamps.
- 6) Serves on the Board of Directors for the Institute for Safety and Health Management.
- 7) Serves on the ANSI/ASSE Technical Advisory Group Z690 Committee for ISO 31000 – Risk Management.
- 8) Provides volunteer safety audits services to the Lion Habitat Ranch, a community animal sanctuary in Las Vegas, NV.

2008 – Present **Americana Safety Software, Las Vegas, Nevada**
President, Author

- An e-commerce website specializing in Occupational Health & Safety compliance software, books and safety videos.

2002 – 2008 **United Healthcare, Las Vegas, Nevada**
Corporate Safety Officer

- Administered comprehensive safety and security procedures and initiatives to support business objectives
- Oversight responsibility for physical security posture at 13 geographically separated facilities
- Leadership of direct-report staff and mentor to >100 additional duty safety and health representatives
- Established best practices to cultivate a long-lasting safety culture for >3,500 employees
- Occupational injuries and workers’ compensation claims declined each year under my program direction
- Led a corporate team that created disaster preparedness business continuity and emergency actions plans
- Managed post-accident drug/alcohol screening, worker’s compensation and early return-to-work programs
- Performed thorough OHS inspections and audits with detailed reports that directed long-term corrective actions.

Major accomplishments:

- 1) Oversaw the safety and security of 3,500 employees at multiple work locations. I went beyond compliance with OSHA regulations and examined workers’ compensation claims to find high-risk areas. This strategic plan helped identify faulty work practices, equipment and physical property hazards; and
- 2) Initiated an ergonomic program. Initially, 77 percent of the employees assessed experienced varying degrees of physical discomfort. After training and changes to the work environment and equipment, 90 percent of those employees reported the reduction or elimination of symptoms and time off from work.

1999 – 2000 **College of Southern Nevada, Las Vegas, Nevada** – Director, Safety & Security

1998 – 1999 **Walter Construction (USA), Renton, Washington / Las Vegas, Nevada** – Project Safety Engineer

1996 – 1998 **Bombard Electric, Las Vegas, Nevada** – Safety Director

1995 – 1996 **Rio Suite Hotel and Casino, Las Vegas, Nevada** –Risk Manager, Safety and Security

1975 – 1995 **US Air Force** – Active Duty Military

(1990–1995) OHS Superintendent – National Security Agency (NSA) projects

Major accomplishments:

- 1) Worked in concert with private contractors such as Boeing, Northrop Grumman and Lockheed Martin, MIT, Bechtel and the EG&G Special Projects Division on Department of Defense projects at multiple facilities simultaneously.
- 2) Participated in the innovative and safe use of high-performance optical systems and complex chemical engineered materials for aerospace, environmental and military applications.

(1986–1990) OHS Management Inspector – US Air Force Inspector General's staff

Major accomplishment:

Hand-picked for this select assignment to provide OSH management oversight and to grade efficiencies and effectiveness of occupational health and safety program management at US Air Bases worldwide.

(1979–1986) OHS Specialist and Manager – US & NATO military installations, Mediterranean area

Major accomplishment:

Planned and organized the first joint US and NATO ally safety and health conference held at Aviano Air Base, Italy.

AUTHORED PUBLICATIONS

Technical Books

Live Long & Prosper:

“Safety Save Your Business” – Published 2014

Machine Guarding Handbook:

“The Ultimate Illustrated Safety Guide” – Published 2009

Accident Prevention Handbook:

“Universal Strategies and Plans” – Published 2003

The Human Factors Handbook:

“Truth or Consequences” – Published 1998

Written Safety Plans and Programs

Accident Prevention Guide

Fall Protection Work Plan

Lead Safety Plan

Bloodborne Pathogens Program

Fire Prevention Plan

Personal Protective Equipment Plan

Concrete and Masonry Work Plan

Flammable Storage Program

Radiation Safety Manual

Confined Space Entry Program

Forklift Safety Program

Respiratory Protection Program

Control of Hazardous Energy Program

Hazard Communication Program

TB Respirator Protection Program

Crane, Hoist and Rigging Safety Plan

Hearing Conservation Program

Scaffolding Safety Program

Electrical Safety Program

Injury/Illness Prevention Program

Substance Abuse Program

Emergency Action Plan

Laboratory & Chemical Safety Program

Welding Safety Program

Ergonomics Work Plan

Ladder and Stairway Safe Work Plan

Workplace Violence Plan

Excavation and Trenching Program

Laser Safety Program

Workplace Safety & Health Program

Safety Training Courses

Accident Investigation Training

Emergency Exit Routes

Lead Exposure Safety Training

Accident Prevention Signs/Tags

Ergonomics 101

Lifting and Your Back

Asbestos Safety Training

Ergonomics 102

Liquid Nitrogen Safety Training

Avian Influenza Education

Excavation Safety Training

Machine Guarding

Bloodborne Pathogens Training

Fall Protection Training

Office Safety Awareness

Chemical Spill Safety Training

Forklift Safety Training

Personal Protective Equipment

Combustible Liquids Training

Hand and Power Tool Safety

Radiation Safety Training

Competent Persons

Hazard Communication Training

Respirator Protection

Compressed Gas Cylinders

Hazard Vulnerability Assessment

Respirator Protection Training

Concrete and Masonry Safety

Hazardous Materials Safety

Responsibilities for Supervisors

Confined Space Entry

Hearing Protection Training

Safety Audit Training

Construction Safety Management

Hexavalent Chromium Training

Safety Representative Training

Control of Hazardous Energy

Indoor Air Quality Course

Scaffolding Safety Training

Crane Safety Refresher Course

Introduction to OSHA

Slip, Trip and Fall Prevention

EAP Response Team Training

Job Hazard Analysis Course

Stairway and Ladder Safety

Electrical Safety 101

Laser Safety Training

Walking and Working Surfaces

AVAILABILITY - Dr. DeMaria is available nationwide for safety consulting projects, expert witness assignments, and speaking engagements through Americana Safety Associates, LLC.

Curriculum Vitae Addendum

CONSTRUCTION & SPECIAL OPERATION PROJECTS

2002 – 2008 **United Healthcare**, Las Vegas, Nevada – Corporate Safety Officer
Facilities Department

Construction Projects:

- Medical outpatient and surgery center facilities
- Office buildings and medical suites
- Printing plant

Major accomplishment: During the pre-construction phase of the outpatient surgery center, Dr. DeMaria identified and corrected a major architectural design flaw that saved the company over \$500,000 in unnecessary equipment purchases and construction costs. Project was completed on time and under budget.

1999 – 2000 **College of Southern Nevada**, Las Vegas, Nevada – Director, Safety & Security
Educational and Institutional Facility Construction

Construction Projects:

- Computer laboratory and classroom building
- Dental school and laboratory building
- Nursing school and laboratory building
- Campus administration and faculty building

Major accomplishment: OHS oversight of these major multi-million dollar construction projects resulted in zero accidents of civilian contractors and complete compliance with city, state and federal regulatory standards. Projects were completed on time and within budget.

1998 – 1999 **Walter Construction (USA)**, Renton, Washington / Las Vegas, Nevada – Project Safety Engineer
Road and Bridge Construction Project

Construction Project:

- Four concrete pre-cast segmental bridges at the US-95/I-15 freeway interchange in Las Vegas, NV.
- Each segment, weighted 75 US tons, were pre-cast at an off-site industrial complex, and trucked to the project work sites.

Major accomplishment: Over a one-year period, segments were hoisted and joined into place utilizing a one-of-a-kind multi-radius articulated truss without serious injuries or incidents. Project was completed on time and within budget.

1996 – 1998 **Bombard Electric**, Las Vegas, Nevada – Safety Director
Hotel and Casino Construction Projects

Construction projects:

- New York–New York Hotel and Casino
- Rio Suite Hotel and Casino expansion
- Sunset Station Hotel and Casino
- Paris Hotel and Casino

Major accomplishment: Dr. DeMaria oversaw the safety and health of more than 800 electricians during construction of these four multi-million dollar hotel and casino projects. During each of these new projects, he participated in comprehensive OSHA inspections that netted his company “zero citations and penalties.” According to Nevada OSHA District Manager Jimmy Garrett “this was unprecedented for a major project sub-contractor.”

1975 – 1995 **US Air Force** – OHS Superintendent
Special Operations: National Security (black world) Projects

Major accomplishments: In 1989, while on active duty and assigned to the US Air Force Inspector General's staff, Dr. DeMaria was hand-picked to be the US Air Force's Occupational Health and Safety Superintendent at the Nevada Test Site. He managed the safety and health of all US military and civilian defense contractor's workforce dispersed in remote areas of the test site.

Dr. DeMaria worked in concert with safety engineers from Boeing, Northrop Grumman and Lockheed Martin, MIT and the EG&G Special Projects Division on two multi-billion dollar classified aircraft projects during all phases of airframe manufacturing, avionics and flight testing. Occupational, health and safety challenges arose and were satisfied by the collaborative efforts of Dr. DeMaria and other civilian safety engineering experts.

1975 – 1989 **US Air Force** – OHS Technician, OHS Manager and OHS Inspector
Varied Construction and Renovation Projects

During Dr. DeMaria's military career, he was exposed to many different types of construction projects both here in the United States and abroad. He was fortunate to have had tutelage from more experienced safety professionals that helped guide and hone his skills into the seasoned and well-respected safety professional he is today.

Construction projects:

- US and NATO airfield runway expansions and terminal facilities construction
- Aircraft hangers and joint maintenance shop facilities
- Transportation maintenance, warehousing and industrial shop facilities
- Fire department – multi-function building complex
- Military and defense contractor office buildings

Major accomplishments: Construction projects were completed on schedule, within budget and without serious injuries or damage to government property.

While assigned in Europe in 1983, Dr. DeMaria saw the dire need for a mutual understanding of safety and health requirements among western allies. In 1984, he undertook this challenge and planned, organized and hosted the first joint US and NATO safety engineering conference at Aviano, Air Base, Italy. This joint conference among NATO allies is endorsed by member military leaders and state departments and continues to be a beneficial annual event.

Renovation projects:

- Worker housing facilities
- Dining facilities
- Sports and recreation facilities
- Warehousing facilities
- Excavation of Underground Storage Tanks