

CONSULTING OFFICE OF  
**MORRIS S. FARKAS**  
PROFESSIONAL SAFETY ENGINEER  
CIVIL ENGINEER

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## EDUCATION

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**Bachelor of Science Degree in Civil Engineering**, San Jose State University 1967

- Emphasis in structural analysis and design of wood, concrete, and steel structures

**Masters Degree in Public Administration**, University of Southern California 1976

**Masters of Science Degree in Safety**, School of Safety and Systems Management, University of Southern California. 1983

- History and Basis of Accident Prevention
- Investigation of Accidents
- Human Factors
- Statistical Methods in Safety
- Safety Research and Design
- Legal Aspects of Safety (Product Safety Design, Warning Labels, Safety Instructions and Hazard Information)
- Safety Systems Engineering
- Structural Failure Analysis
- Management of Accident Prevention Programs
- Environmental Safety

## CONTINUING EDUCATION

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**Gas Pipeline Safety Training Courses**, U.S. Department of Transportation, Pipeline Safety Institute. Completed the following 1-week courses: 1983 – 1986

- Safety Evaluation of Pipeline Systems
- Pipeline Failure Investigation Techniques
- Joining of Pipeline Materials (Welding of Steel Pipes and Fusion of Plastic Pipes)
- Gas Pressure Regulation and Overpressure Protection
- Safety Evaluation of Pipeline Corrosion Control Systems I
- Safety Evaluation of Pipeline corrosion Control Systems II
- Pipeline Regulation and Enforcement Procedures

**Construction Safety**, California State University at Los Angeles 1990 - 1991

**Scaffold Safety Training Program**, presented by the Scaffold Industry Association 1992

## **PROFESSIONAL EXPERIENCE**

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**10 Years as a Bridge and Highway Engineer with State of California, Division of Highways, Bridge Department (Cal-Trans)** 1961 -1974

- 5 years in Bridge Construction, supervising, providing engineering support and inspecting the construction of concrete and steel bridges. Additional responsibilities included the safety of construction workers and the public interfacing the construction project from 1970 thru 1972 after the inception of the Federal OSHA Program.
- 4 years in Bridge and Highway Design and Bridge Planning
- 1 year in Environmental Planning

**5-½ years as a Safety Engineer with State of California, Division of Occupational Safety and Health (Cal-OSHA)** 1974 - 1979

- Conducted inspections for safe working conditions, and safe work practices, at construction and demolition sites, industrial plants, machine shops, petroleum refineries, petroleum drilling sites, warehouses, loading docks, automotive repair facilities, and commercial establishments. Equipment inspected included, scaffolds, scissor lifts, ladders, work platforms, stairways, ramps, and numerous construction and industrial machinery and equipment. Also inspected safety procedures involving crane operations, concrete pumping operations, electrical equipment, excavations, confined space entry into tanks, manholes, and pipelines, roofing operations, vehicle traffic control, personal protective equipment, lock-out and tag-out of energy sources on electrical and mechanical equipment, use of industrial lift trucks (forklifts) and pallet jacks in warehouses and on loading docks, vehicle backing operations, storage of flammable materials, petroleum drilling sites, and marine terminals.
- Investigated fatal and serious work accidents involving construction sites, industrial plants, petroleum refineries, warehouses, the use of scaffolds and man-lifts, materials handling by industrial lift trucks (forklifts), contacts with overhead energized electrical power lines, numerous industrial machinery, falls from elevations, improper vehicle backing operations, explosions inside of confined spaces, accidents at petroleum production sites, and collapse (cave-ins) of excavations..
- Consulted with general construction contractors on numerous construction sites regarding safety procedures to be implemented in the use of mobile cranes in the vicinity of overhead energized high voltage electrical lines.
- Acting District Manager of the Los Angeles Cal-OSHA Office, [ supervising five safety engineers in the inspection of work sites and investigation of fatal and serious accidents (October 1, 1977 to April 1, 1978).

## **12-½ years as an Engineer with the California Public Utilities Commission**

- 2-½ years as a Utilities Engineer in the Water Utilities Branch and the Electric Branch, processing rate increase applications. 1979 - 1982
- 2 years as a Safety Engineer in the Utilities Safety Branch, reviewing the design of transmission and distribution gas pipelines, and inspecting gas pipeline construction, testing, operating pressures, maintenance and repair. Investigated accidents involving gas pipeline ignition, explosions and damage due to contact by construction activity. 1982 - 1984
- 8 years as a Senior Safety Engineer in the Utilities Safety Branch, responsible for the safety of gas pipelines, and overhead and underground electrical power lines in Southern California. Supervised four safety engineers in the inspections of gas pipelines, and overhead electrical power lines. Directed accident investigations of gas pipeline ignition and explosions, and contacts with energized overhead and underground electrical power lines. Inspected the safety of electrical switches in underground electrical vaults. Evaluated and monitored special gas pipeline replacement programs of Southern California Gas Company, Pacific Gas and Electric Company and San Diego Gas and Electric Company after the 1989 earthquake that resulted in extensive damage in San Francisco. Inspected and evaluated vehicle traffic control measures taken during gas pipeline construction and repair projects located in the roadway. Inspected the safety of gas pipeline excavations relating to the safety of workers. Enforced the use of barricades surrounding gas pipeline excavation in order to protect both vehicular and pedestrian traffic. 1984 – 1992

## **27 years as a Licensed Professional Safety Engineer Consultant**

1979 - present

### **Areas of expertise include:**

- Accident Prevention Planning
- Accident Prevention Management and Supervision
- Accident Investigation
- Accident Reconstruction
- Compliance with Building Codes
- Compliance with Federal OSHA and State OSHA Safety Regulations
- Construction Safety
- Demolition Safety
- Electrical Safety
- Fall Protection
- Hazard Control for the General Public
- Industrial Safety
- Industry Safety Standards
- Playground Safety
- Pipeline Safety and
- Products Safety & Liability
- Safe Design of Equipment and Machinery
- Safety Instructions, Safety Labels & Warning Signs
- Safety Precautions in the Operation and Maintenance of Machinery
- `Workplace Safety

## TEACHING EXPERIENCE

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- Long Beach City College** 1975 - 1989
- Accident Prevention
  - Construction Safety
  - Occupational Safety and Health
- Cerritos College** 1977
- Construction Safety
- University of Southern California** 1981 - 1983
- Potential for Accidents in the Workplace Due to Human Factors, presented to corporate safety managers.
- Northrop Corporation** 1984
- Accident Prevention for manufacturing production supervisors, which included fall protection from work platforms, confined space safety precautions during the use of solvents inside of the aircraft fuselage, and personal protective equipment. Custom designed and presented to more than 40 supervisors over an 18 week period at the Torrance Aircraft Plant.
- California State University at Los Angeles** 1990
- Safety Programs adopted and implemented by major general construction contractors, manufacturing plants, gas and electric utilities, water and telephone companies, city, county and state government construction projects, and city and county maintenance departments. Presented to graduate students in the Master of Science in Safety Degree program in Occupational Safety and Health.
- Trade Unions (Southern California)** 1996
- Construction Safety for plaster, painting and drywall apprentices, and heating/ventilating/air-conditioning (HVAC) journeymen.

## ASSISTED IN DEVELOPMENT AND PREPARATION OF SAFETY PROGRAMS FOR INDUSTRY

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- Construction (General Contractors)
  - Manufacturing
  - Petroleum Pipelines
- 1983 – 2004

## PROFESSIONAL ACCREDITATION & COMMENDATION

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- Registered Professional Civil Engineer in California (No. 26967) 1976 – 1998
- Registered Professional Safety Engineer in California (No. 2120) 1977 - present
- Member of American Society of Safety Engineers 1989 - present
- Associate Member of Scaffold Industry Association 1983 - present
- Member of Associated General Contractors of America 1982 - 2000
- Member of Associated General Contractors of California Safety Health and Environment Committee 1997
- Associate Member of Truss Plate Institute 1993 – 1994
- Received written commendation from the California Public Utilities Commission for investigation of the of the Southern Pacific Railroad train derailment on the potential impact of the safety of gas transmission supply lines located in Santa Barbara County. 1991