

## FRED C. LEAFLOOR, CHSC, CRSP, CRM

### OBJECTIVE

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To introduce **Safety First Industrial Safety Services** and its owner, **Frederick C. Leafloor**, to Prospective Clients

### PROFESSIONAL EXPERIENCE

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Safety First Industrial Safety Services

*President & Principal Consultant*

Responsible for development, implementation and maintenance of a business plan for a small industrial safety service consulting company. Company is actively developing business opportunities and new markets.

Clients include primarily offshore energy industry members, but also include general commercial and industrial clients in communications, retail, manufacturing, and legal sectors, as well as government agencies.

As *Principal Consultant*, responsible for Client services in specialised health and safety tasks such as: marine survey, regulator representation, safety management and mentoring, professional safety & health advisor assisting legal counsel, heavy construction safety management advisor.

Lasmo Nova Scotia / PanCanadian Petroleum Ltd

*Senior Safety Coordinator*

Husky Oil Operations, East Coast

*Marine Superintendent*

Gulf/BeauDril Limited

*Marine-Drilling Systems Safety Supervisor*

Dome Petroleum Ltd

*Marine Systems Safety Supervisor*

Within the above organisations:

Responsible for development, implementation and maintenance of loss prevention and safety training policy, programs and standards

Responsible for business unit security policy and program



## PROFESSIONAL EXPERIENCE

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Developed accident/incident and follow-up tracking computer database  
Served as Safety Superintendent and Offshore Safety Advisor  
Responsible for development, implementation and maintenance of  
company emergency response plan and support team training  
Conducted emergency response team training (rig, vessel & onshore teams)

### Municipal Service

*Goulds Fire Department, Newfoundland (Firefighter)*

*Bedford Fire Department, Nova Scotia, (Lieutenant, D Platoon)*

*Halifax Regional Fire & Emergency Service, Nova Scotia (Platoon Captain)*

- Served in positions of increasing responsibility and varied taskings, including Fire Operations, Fire Ground Command, Emergency Planning, and Training Division.

### Maritime Service

*Canadian Coast Guard, Canadian Forces (Navy), Merchant Marine*

- Served in positions of increasing responsibility, including deckhand (CCG), rescue crew (CCG), navigating officer (Navy), ship's diving demolitions/rescue team officer (Navy), cargo officer (merchant), up to Chief Officer, and relief anchor Master aboard drillships

## ACCREDITATION / CERTIFICATES HELD

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- CRSP (Canadian Registered Safety Professional) designation
- CHSC (Certified Health & Safety Consultant) designation
- CRM (Canadian Risk Management) designation
- Canadian Marine Certificate of Competency Ocean Navigator II and International Maritime Organization Endorsement (STCW) Chief Mate
- Nova Scotia Provincial Certification as Firefighter - Level One (IFSTA)

## PROFESSIONAL TRAINING

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- Dalhousie University
  - Canadian Risk Management: Assessing Risk*
  - Canadian Risk Management: Risk Control*
  - Canadian Risk Management: Risk Financing*
- Dalhousie University / DalTech
  - Hazard Assessment Critical Control Points (HACCP) Auditor*
- Tecsalt Eduplus / P&H Marine Associates
  - IMO International Safety Management Code & ISO 9000 - Internal Auditor*



- Canadian Society of Safety Engineering  
*Certified Health and Safety Consultant (Professional Designation) #3403.25*
- Ryerson Polytechnic University (Extension Program)  
*Canadian Registered Safety Professional (Designation) - #97-1120.*
- Nova Scotia Firefighter School  
*Provincial Certification: Firefighter - Level One*
- DNV/International Loss Control Institute  
*Accredited Safety Auditing - #ATL-000068-1102-ASA-PC-95*

## **PROFESSIONAL TRAINING (Cont'd)**

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Various Training Establishments:

Canadian & international training courses

- Supervision (*Atlantic Regional Management Training Centre*); Oilspill Counter-measures & On-Scene Command (*BP Southampton*); Industrial Firefighting (*Texas A&M University and Ansul Corp*); Equipment Inspection (*Ansul, Scott Aviation, Mine Safety Appliances*); Hydrogen Sulfide Rescue (*PITS*); Advanced I and Mariners II First Aid (*St John Ambulance*); oilfield and marine survival training (*Survival Systems, Pacific Marine Training Institute, Nova Scotia Nautical Institute, Marine Institute, St Johns*); and others (certificates available)
- Nova Scotia Nautical Institute  
*STCW-78 & STCW-95 Chief Mate Certificate of Competency – #CDN 6814S*
- Appointed Trainer for the Canadian Society of Safety Engineering  
CHSC Professional Designation:  
*Legal Obligations & Liabilities Program*  
*Applied Risk Communications Program*  
*Consulting Skills Program (Special Service only)*

## **MEMBERSHIPS**

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- Representative to the Canadian Marine Advisory Council, a senior-level regulatory advisory body.
- Past Board Member, *Nova Scotia Safety Council*
- Member of the *Board of Canadian Registered Safety Professionals*.
- Professional Member of the *Canadian Society of Safety Engineering*.
- Professional Member of the *American Society of Safety Engineers*.
- Past Board of Directors Member of the Canadian Society of Safety Engineering (*Atlantic Region Vice-President*.)



- Member: *Better Business Bureau of the Maritime Provinces.*
- Member: *Onshore/Offshore Trade Association of Nova Scotia*
- Associate Member: *Canadian Association of Petroleum Producers.*

## **PUBLICATIONS**

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Mr. Leafloor has produced a large number of in-house programs, reports and manuals for Clients and previous employers. He has presented at, and been published in, international safety conferences and proceedings.

He has lectured at the Technical University of Nova Scotia (now DalTech) and at undergraduate classes in Dalhousie University. Some of his formal research work has been published internationally by the Government of Canada within PERD (Panel on Energy Research and Development). Examples can be provided upon request.

## **AWARDS RECEIVED**

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Canadian Petroleum Association Award of Merit for:

- (i) service as Chairman of the East Coast Operators' Safety Committee for two consecutive terms,
- (ii) researching/co-authoring the Industry's "Report of the Offshore Safety Task Force", following the loss of the Ocean Ranger, and
- (iii) completing successfully the task of Project Manager, East Coast Offshore Evacuation Research Project, resulting in the development of the Preferred Orientation and Displacement (PrOD) Lifeboat Launching System, as well as an innovative lifeboat recovery technology. These are in use within the Hibernia and Terra Nova offshore development projects.



## **SAFETY FIRST INDUSTRIAL PROJECTS / EXPERIENCE**

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Fred Leafloor, through Safety First Industrial Safety Services, has led occupational safety and health program development activities, regulatory awareness and compliance assessments, for onshore and offshore energy-related operations, as well for onshore manufacturing and retail sector organizations within the provincial, federal, and joint regulatory jurisdictions. Recent examples are:

Providing contract safety and health mentoring for Safety Supervision and Safety Officers in Qatar (Middle East) during construction of gas processing plants (280 safety practitioners, 24,000 workers)

Conducting regulatory and management system assessments of land drilling and gas plant operations in Eastern Canada activities.

Conducted regulatory research projects for a number of Clients, on various subjects, including:

- Research summary of 25 years of offshore survival/rescue activities (for Canadian government)  
<http://www.tc.gc.ca/innovation/tdc/publication/pdf/14500/14554e.pdf>
- Canadian-service requirements for lifeboat evacuation systems
- Development of Canadian Lifeboat *Performance Based Standards*
- Shared Standby Vessel Use Between Nearby Offshore Platforms

Health and Safety Team Lead within the Lasmo Nova Scotia light crude production operations. Co-authored the Lasmo Nova Scotia (later PanCanadian Petroleum) *Safety Management System Manual* and *Safe Work Practices and Procedures Manual*.

Authored the Sable Offshore Energy Inc. *Helicopter Operations Manual* for onshore and offshore project aviation services (Federal Regulations).

Developed & presented the DownEast Communications Limited Joint Occupational Health & Safety Committee (JOHSC) Member Training Program (Provincial Jurisdiction)

Developed *Safety Management System* and *Safe Working Practices* program and manuals for the Halifax Port Authority (Operations Division)

Wrote the Marathon Canada (Atlantic) *Safety Plan and Practices Manual* and *Emergency Response Plan* for the Annapolis Exploration Drilling Program.

Researched and authored the *East Coast Offshore Marine Evacuation Systems (Phases 1, 2 and 3 Reports)* regarding technology and procedural enhancements to lifeboat evacuation systems. The conclusions were adopted by offshore regulators.



## **SAFETY FIRST INDUSTRIAL PROJECTS / EXPERIENCE (Cont'd)**

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Developed the SeaBed GeoSurveys Inc. *Safety Management System Program Manual*.

Developed & presented the HalTerm Limited Health & Safety Committee Member Training Program (Federal Jurisdiction)

Developed *Nova Scotia Offshore Area Occupational Health & Safety Requirements Self-Teach Training Program* for operator and contractor organizations. Client programs have been reviewed and accepted for use by the Canada Nova Scotia Offshore Petroleum Board.

Developed the Bedford Fire Department *Site Fire Response Planning System* and Site Plans for higher risk fire exposures. Assisted in the development of the Fire Department Emergency Response Manual.

Conducted Hazard Identification & Risk Assessment studies for PanCanadian (EnCana Energy) for aspects of their new development.

For three Petroleum Operator Clients, developed Audit Tools for the evaluation of “Expressions of Interest” and “Bid Documentation” assessments of Bidder documentation for platform fabrication, pipeline installation, drilling programs and provision of third-party drilling services. Conducted follow-up physical verification audits of the bidders’ premises and documentation.

Developed the Chevron Canada Resources *Safety Management Plan* and *Emergency Response Plan* documents for the Nova Scotia offshore drilling operation. Assisted Chevron in the Installation Acceptance Surveys for the importation of the drilling unit into Canada

Developed the Kerr-McGee Offshore Canada *Safety Management Plan* and *Emergency Response Plan* documents for offshore drilling.

Provided offshore health and safety personnel aboard the *Castoro 10* to support the ExxonMobil Thibaud-to-Alma pipelaying operations.

Assisted in the partnership development of the Canadian Superior Energy Inc. *Safety Management Plan* and *Emergency Response Plan* documents for the Marquis drilling program.

Developed an *Environmental Management Plan* for the Nova Scotia operations of DownEast Communications Limited.

OHS Consultant for Design Review, Construction & Installation teams for ExxonMobil Alma & South Venture Production Platforms and the Thebaud Gas Compression Platform, Canada

Technical Advisor for in-situ installation of lifeboat on North Triumph Gas Platform, offshore Nova Scotia

Regulatory, Safety, Health & Environment Lead for offshore deepwater drilling programs, Orphan Basin Project, Newfoundland, Canada



## SPECIAL PROJECTS

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Fred Leafloor, through Safety First Industrial Safety Services, has melded his background knowledge and experience within the maritime industry and his regulatory compliance expertise to provide a unique service to the East Coast marine community, particularly for the offshore sector.

Safety First Industrial conducts marine health, safety, sanitation, and environmental surveys of domestic and foreign-flag vessels to support their acceptance by petroleum operators and the petroleum regulators for offshore service in Nova Scotia and Newfoundland. These international special surveys include reviews of owner/vessel documentation, physical conditions surveys of the vessels, safety management system analysis and emergency preparedness evaluation and guidance regarding the unique requirements of the East Coast offshore regulatory regime.

This practice has provided for the economical and efficient entry of a number of vessels into Canadian service, including mobile drilling units (drillship, semi-submersible and jackup), dive support vessels, lay barges, pipeline vessels, seismic vessels, offshore supply vessels, special purpose support/cargo vessels, heavy lift vessels and offshore standby vessels.

Other Special Projects undertaken by Safety First Industrial Safety Services include the development and delivery of specialized Client-specific occupational health, safety and environment services, training programs and safety auditing systems.

Fred Leafloor recently undertook a series of special projects for RasGas Company Ltd, of Doha, Qatar at their gas plant “Train 6 / Train 7” construction facility in Ras Laffan Industrial City, with a workforce of over 24,000 persons. These assignments require the in-country development and classroom delivery of a safety mentoring training program (*Safety Fundamentals*) for Field Safety Advisors/Managers, development of an Accident/Incident and Basic Cause Analysis program, as well as developing and implementing the project-wide Safety Auditing Program and Schedule.

Other special services and projects have included:

- Industrial Workplaces Physical Conditions Inspection
- Fatal Accident Investigation Team Member and Team Lead
- Legal Team OHS Resource/Advisor (Fatality Public Inquiry)
- Legal Team OHS Resource/Advisor (Watercraft Fatality)
- Development/ Author of Nova Scotia and Newfoundland Offshore *OHS Regulatory Requirements* Familiarization
- Delivery of DNV *Systematic Cause Analysis Technique* (SCAT) training
- *Joint Occupational Health & Safety Committee* (JOHSC) training
- Job Safety Analysis / Task Safety Analysis development and training