



Safe refineries. Confident communities.

Refining products. Refining process safety.



Canadian Fuels
ASSOCIATION

Canadian Fuels refiners are dedicated to the safety and health of employees, contractors and neighbours.

The safety record for the 14 Canadian refineries operated by our members is among the best for Canadian manufacturers. This excellent safety record is the result of carefully planned and executed systems and processes designed to prevent incidents. While the demand for petroleum products remains steady, the safety record at our member's refineries is continuously improving. This has been achieved through the constant attention to safety by all employees.

There is no substitute for well-trained, experienced professional and technical workers, and informed communities, to assure safe operations. Canadian Fuels refiners have developed an excellent safety record operating in collaboration with Canadian communities for more than a century.

Process Safety Management results in a culture of process safety in all refinery operations. Preventing accidents, promoting and reinforcing safe behaviour are the anchors for safe processes and work practices. Refiners comply with all applicable government regulations, laws, permits, agency orders and agreements. Getting it right the first time is the goal—if it can't be done safely, it won't be undertaken!



Keys elements of Process Safety Management

1

Safe work culture

- All employees, including senior management and contractors, make safety a personal responsibility.
- Refinery personnel are hired with the best skills and are well-trained to safely manage refinery process operations.
- The drive toward zero incidents is continuous. Those who do it right get recognized.

2

Integrated planning and operations

- Safety, health, and environment considerations are integrated into facility plans and designs, operating equipment, management and operational practices, and performance programs.
- Getting it right the first time is the goal.

3

Sharing resources in emergencies

- Refiners and local authorities participate, coordinate and share emergency planning, and mutual aid response resources.
- Simulated emergency scenarios are part of the emergency response program.

4

Striving to improve

- Canadian Fuels refiners are always looking to improve safety performance. This includes programs to proactively identify and eliminate hazards to enhance site safety and continually upgrade work practices to be more effective and efficient.
- Safety practices are benchmarked to reinforce safety and safe processes, and to ensure progress toward zero operating incidents.

5

Leadership and consultation

- Good leadership goes hand-in-hand with consultation. Leadership is essential to safe and reliable refinery operations, but just as important is consultation with personnel, contractors and the community.
- Equally important is consultation with government regulators at the federal, provincial and municipal levels to ensure our operation can meet or exceed current legislated requirements, and to participate in development of new regulations.



Process Safety Management for safer communities

Canada's refiners place a high priority on protecting the health and safety of employees, contractors and neighbours. They conduct their business with a dedication to safe and sustainable operations that goes beyond company boundaries and extends into the communities where they operate.

Refinery success depends on a framework of process safety management that achieves safe operations and prevents incidents with potential impact to neighbouring communities. Refiners collaborate with members of their communities as they believe sharing important information and constructive dialogue results in well-informed and safer communities. It is vital that refiners work continuously to earn and maintain the trust and understanding of residents in the communities where they operate.





Integrity, confidence, trust

Canadian Fuels refiners are dedicated to the safety and health of employees, contractors and neighbours.

Safe, secure, injury and incident free operations are vital to a successful refining industry. Canadian Fuels refiners value workplace and community safety.

Refiners have developed an excellent safety record in Canadian communities for more than a century. This is the result of Process Safety Management—managing facilities, systems and processes to prevent incidents that may be harmful.

Core values of Process Safety Management

Integrity in facilities and equipment

- Process safety is built into the design, construction, start-up and final decommissioning of all new and modified refineries.
- Operational and maintenance procedures exist to maintain safe facilities.
- Data is regularly collected, reviewed and assessed to identify trends and develop protocols to manage and resolve potential operational hazards.

Confidence in the operating procedures and processes

- Refineries manufacture various petroleum products and operate on a continuous basis day and night. To operate processes safely and reliably under these conditions, operational protocols are developed and integrated into refinery operations.
- Refiners adhere to all relevant government regulations, laws and permits.
- Operational risks are managed by identifying potential hazards and developing control measures and mitigation plans.
- Contractors and suppliers are required to perform in a manner that is consistent and compatible with corporate safety policies and industry performance practices.

Trust in the training and development of people and safe practices

- There is no substitute for well-trained and experienced professional and technical workers to assure safe refinery operations. Personnel must possess the necessary competencies, knowledge and demonstrated behaviours to perform safely.
- Incidents and accidents are reported, investigated and tracked to identify emerging trends or system weaknesses. Lessons learned from incidents or near misses are documented, communicated and used in the prevention of future incidents.
- Key personnel are competent in emergency response and incident coordination.

Process Safety Management for safer operations

"Safety is never compromised—if it can't be done safely, our members won't do it; we take safety seriously and have an excellent track record to prove it. No one should get hurt on or off the site!"

PETER BOAG

Canadian Fuels President & CEO



Operating safely. Protecting communities.

Canadian Fuels refiners follow protocols to ensure safety success at refineries:

- Refinery employees are competent and well-trained with best available technology and state-of-the-art resources. Procedures for safe working practices are established for tasks with personal safety risks.
- Facilities and processes are managed to ensure process safeguards are identified and verified as operational.
- Employees and contractors performing tasks with safety risks must adhere to established safety procedures and best practices. It is a personal responsibility.
- Simulations and drills are conducted periodically to test emergency preparedness, to train the incident coordination and response teams, and update response planning.
- Refinery personnel and contractors adopt practices consistent with emergency preparedness procedures.
- All incidents, no matter how large or small, are reported, investigated and tracked. Lessons learned from incidents are used to identify emerging trends or system weaknesses, take corrective action and prevent recurrence.

Emergency planning and preparedness

When it comes to providing a safe, secure supply of energy, Canada's refiners can be proud. The safety record at our facilities is an excellent one. However, despite best efforts, we have not yet achieved an accident-free workplace. Canadian Fuels member companies are well-prepared to respond to accidents that occur at their facilities in a way that maintains a safe environment for employees, contractors and neighbours. This disciplined and systematic approach to emergency planning and preparedness is critical to advance our excellent safety record.

Should an emergency occur:

- Trained personnel are deployed, supported by regional emergency response teams and senior management, to manage and minimize impacts and restore normal, safe operations.
- To strengthen this emergency capability, routine drills and exercises are conducted with trained teams on a wide range of safety scenarios, including natural disasters and security incidents.
- Refiners have business continuity plans, which involve a proactive planning process that ensures critical services or products can be delivered during a disruption.

The **Canadian Fuels Association** (Canadian Fuels) is the national association of major Canadian companies involved in the refining, distribution and marketing of petroleum products. Canadian Fuels members have a long track record of leading edge industry performance and focus on continuously improving health and safety aspects for all facets of operations.

CANADIAN FUELS IS COMMITTED TO:

Working with all levels of government in the development of science-based and technically feasible approaches to the regulation of the refining industry.

Developing guidelines for health and safety, environmental best practices and best management practices for consideration by its members and third parties.

Providing industry information to governments, the public and media.

CANADIAN FUELS MEMBERS WITH OPERATING REFINERIES:



**Consumers'
Co-operative Refineries
Limited**
REGINA, SK



Imperial Oil Limited
EDMONTON AB, SARNIA
AND NANTICOKE, ON



Irving Oil
SAINT JOHN, NB



**Northwest Redwater
Partnership**
REDWATER, AB



**Parkland Refining
(B.C.) Ltd.**
BURNABY, BC



**Petro-Canada
Lubricants Inc.**
MISSISSAUGA, ON



**Shell Canada
Products Limited**
FORT SASKATCHEWAN, AB,
SARNIA, ON



**Suncor Energy Inc.
Partnership**
EDMONTON AB, SARNIA, ON,
MONTRÉAL, QC



Valero Energy Inc.
LÉVIS, QC



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