ENBRIDGE TECHNOLOGY

SAFETY MANUAL

Our Safety Manual is a reference book designed for field-based operations employees and contractors who work around pipeline equipment and facilities.

This manual consists of 14 sections:

1. Safety Management System
2. General Safe Work Practices
3. Safe Work Permits
4. Confined Space Entry
5. Fire Protection
6. Lockout
7. Electrical Safety
8. Hazardous Materials
9. Vehicles
10. Aircraft
11. Tools and Equipment
12. Material Handling
13. Personal Protective Equipment
14. Safety Equipment

Section	Section Title	Section Description
1	Safety Management System	• Explains how the Safety Management System works, and identifies standards for safety meetings, safety representatives, safety inspections and audits, safety orientations, and safety training. • Provides procedures for conducting safety inspections and reviewing the O & M procedures.
2	General Safe Work Practices	• Identifies requirements for working alone, smoking, visitors, alcohol and drug use, housekeeping, manual lifting, working at elevations, and more.
3	Safe Work Permits	• Explains how safe work permits are used, including signing authority, hazardous and restricted areas, and fire watches. • Provides procedures for completing safe work permits
4	Confined Space Entry	• Explains how confined spaces are identified and classified, and identifies requirements for safe work permits for confined spaces, air testing and

		monitoring, personal protective equipment for confined spaces, fire protection in confined spaces, and more. • Provides procedures for entering confined spaces.
5	Fire Protection	• Identifies requirements for fire-fighting, fire training, fire-fighting equipment, equipment inspection and maintenance, and more. • Provides procedures for responding to fires (general procedure), responding to fires in facilities, responding to main line, manifold, or piping fires, responding to tank fires, using fire extinguishers, using foam trailers/ trucks, inspecting fire-fighting equipment, and more. • Contains a list of fire extinguishing agents in the Appendix.
6	Lockout	• Identifies requirements for locking-out equipment. • Provides procedures for locking-out equipment, restoring locked-out equipment, locking out units and booster pumps, blowing down NGL to a flare stack or pit, and more.
7	Electrical Safety	• Identifies requirements for working on energized conductors, safe limits of approach, working within energized substations, personal protective equipment for electrical work, voltage testing, and more. • Provides procedures for opening and closing switches, removing and replacing fuses, grounding high-voltage conductors, isolating equipment, and more.
8	Hazardous Materials	• Identifies requirements for storage, transportation, and disposal of hazardous materials, breathing hazards around hazardous materials, radiation hazards, and more. • Provides procedures for removing asbestos-contaminated material, entering potentially hazardous atmospheres, working with wet cell batteries, bonding for static electricity, and more. • Identifies types of hazardous materials and characteristics of products pumped in the Appendices.

9	Vehicles	• Identifies requirements for drivers, vehicles, vehicle equipment, and vehicle repairs.
10	Aircraft	• Identifies requirements for general aircraft safety, helicopters, fixed-wing aircraft, and helicopter external load operations. • Provides procedures for operating emergency locator transmitters.
11	Tools and Equipment	• Identifies requirements for tool operation, electric grinders, air-operated tools, regulators, portable catalytic heaters, and air movers.
12	Material Handling	• Identifies requirements for classification of material lifting equipment, safe working loads, material lifting equipment, and inspection and operation of material lifting equipment.
13	Personal Protective Equipment	• Identifies requirements for eye, head, hearing, hand, foot, and face protection, fire retardant clothing, protective clothing, respiratory protection, and more. • Provides procedures for filling cylinders with the cascade air system.
14	Safety Equipment	• Identifies requirements for standard safety equipment, portable combustible gas detectors, hydrogen sulphide detectors, flashlights, first aid equipment, vehicle recovery straps, and wind socks.