

2026 Storage Tank Systems Management and Compliance Course Outline

The following main topics will be covered during the storage tank management course:

Tank Fabrication Standards

Discussion of Steel Tank Institute, Underwriters Laboratories Canada, and American Petroleum Institute standards and specifications for storage tanks.

Corrosion Basics

Taking the mystery out of the natural phenomenon of corrosion. Identification of common areas of corrosion in aboveground tanks.

Inspection Techniques

Demonstrating how various methods are used to identify the condition of aboveground and underground storage tanks. Discussion of criteria for determination of acceptable tanks and those which require repair.

Canadian Federal and Provincial Regulatory Requirements

Establishing what Canadian federal and provincial regulators expect you to provide to meet inspection, commissioning, record keeping and reporting mandates.

National Building and Fire Codes

Discussion of various national codes including Fire Code and Building Codes will occur. Emphasis on how tank systems must be installed to meet the fire and building codes.

Valves and Piping

Pressure or suction systems. Venting installation requirements. Vapour recovery systems. Appropriate materials for fuelling. Use of valves per function, fire safety, isolation, etc.

Leak and Product Monitoring

Leak and level control equipment, correct installation, "dip sticking" storage tanks.

Electrical Code

Requirements of the Canadian Electric Code relating to tank installations. A brief overview of the Canadian Electrical Code will also be discussed.

Hands on Demonstration

Hands on demonstrations in the practicum of each type of equipment for better understanding of how each is designed and why it must be properly installed.

Course reference material:

It is required that you have a copy of the following standards and bring them with you to the course. Course fee does not include the costs of these standards and a reference copy of each will be available for participants for viewing.

- SOR 2008-197 Regulations (mandatory and available for free)
- CCME PN 1326 (mandatory and available for free)
- CSA B139-2015 (optional and must be purchased)
- CSA C282-2019 (optional and must be purchased)
- National Fire Code 2020 (recommended and available for free electronically)
- Provincial Codes (recommended) as they affect your STS

Included in class materials:

API 651 & STI RP-111
CEC C22.2 applicable articles
NBC 2020 applicable sections
ULC S676

Course modules

- Module 1 Introduction and content synopsis
- Module 2 Federal Regulatory and National Fire Code review
- Module 3 Review of Codes and Standards
- Module 4 Technical review of storage tank systems
- Module 5 Installation, registration and removal from service
- Module 6 Inspections, corrosion, precision leak testing, detection
- Module 7 Emergency Response Planning and spill reporting
- Module 8 Record keeping requirements
- Module 9 Product Transfer Areas Risk Assessment and SOP
- Wrap up and closing remarks

Storage Tank Systems Management and Compliance Program Workshop

Fall, 2026
TBD, TBD, Ottawa, Ontario, K1V 2S6

Facilitator and
Instructor: Pierre Legault IRS Tank
Solutions

Agenda - Day 1

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
08:30	Welcome remark	IRS management
08:40	Agenda review and roll-call	Pierre Legault
08:55	Module 1: Introduction and content synopsis	Pierre Legault
09:30	Break	Pierre Legault
09:45	Break Module 2: Federal regulatory and NFC review	All
12:00	Lunch (not provided)	Pierre Legault
13:00	Module 3: Review of codes and standards (CCME, CSA & ULC)	Pierre Legault
15:00	Break	Pierre Legault
15:15	Module 3: Review of codes and standards (continued)	All
16:40	Wrap up	All

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Agenda - Day 2

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
08:30	Welcome, agenda review, and roll call	IRS management
08:40	Module 4: Technical review of storage tank systems	Pierre Legault
09:45	Break	Pierre Legault
10:00	Module 5: New installations, registration and removals from service (Federal)	All
12:15	Lunch (not provided)	All
13:00	Module 6: Inspections, corrosion protection, precision leak testing, leak detection	Pierre Legault
15:00	Break	All
15:15	Module 7: Environmental Emergency Response Planning and Spill Reporting	Pierre Legault
16:30	Wrap up	All

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Agenda - Day 3

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
08:30	Review of agenda	Pierre Legault
08:35	Module 8: Record-keeping requirements	All
09:45	Break	Pierre Legault
10:00	Module 9: Product Transfer Areas Risk Assessment and SOP	All
11:15	Action Items review and roundtable discussion on current challenges	All
12:00	Lunch (not provided)	Pierre Legault
13:00	Practicum with real-life storage tank system inspections	Pierre Legault
15:00	Wrap-up and closing remarks	Pierre Legault

Item	Action Item	Assignee	Target Due Date	Comments
1.				