

## LEHDER Environmental Services

## Reg. 347 Land Disposal Restriction Organic Wastes

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April 2009

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### Introduction

Under O.Reg. 347, hazardous waste destined for land disposal will be required to meet the same rigorous pre-treatment standards as those imposed by the U.S. Environmental Protection Agency. The Ontario Land Disposal Restriction (LDR) is entering into its second phase for organic wastes effective June 30, 2009. The LDR establishes treatment requirements for hazardous wastes that will be land disposed, including wastes and residuals from the processing of these wastes.

The second phase impacts listed and characteristic ORGANIC wastes listed in Schedules 1, 2A, 2B, 3, 5 and 6 that are destined for land disposal. Wastes that meet this LDR Standard must be updated in HWIN by June 30, 2009.

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### Background

O.Reg. 347 – General Waste Management was amended in 2005 to prohibit the land disposal of certain wastes unless the waste meets specific treatment standards to reduce the mobility and/or toxicity of its hazardous components. The Land Disposal Restriction (LDR) program was phased in to allow the impacted facilities time to understand the new requirements and make any necessary changes to their hazardous waste management program.

The first treatment standards of the Ontario Reg. 347 Land Disposal Restriction (LDR) requirements took effect on **August 31, 2007** for **listed and characteristic inorganic wastes** (listed in Schedules 10 – 13 of Reg. 347)

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### Who is Impacted?

All listed and characteristic hazardous waste generators are impacted by the implementation of the second phase of the LDR.

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### HWIN Update

All generators of Listed and characteristic hazardous wastes are required to update their HWIN registration to reflect each specific hazardous waste stream and its characterization by June 30, 2009. If there have been any changes in information previously submitted, then the supplementary registration is required. This means that the Generator Registration Report must be updated by completing Part 2A and Part 2B (LDR Notification), as necessary.

**Note: Reg. 347 requires each subject waste stream to be registered.**

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### New LDR Information Required

The regulation requires generators to provide detailed information during the registration process, including:

- Treatment standards that apply to the waste stream
  - Identify treatment subcategories
  - Identify all contaminants, the pre-treatment requirements and the intended treatment method for hazardous waste destined for land disposal. (**Note** this is also required of waste streams not destined for land disposal but sent to a waste transfer station.)
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## Suggested Action Plan

### The suggested action plan for affected facilities is:

1. Identify each specific hazardous waste stream shipped off site from your facility.
  2. Review current generator registration information in HWIN, including the analytical data the registration was based on, to determine what further information will be required for each stream.
  3. Where necessary, sample and re-analyze the waste to ensure appropriate classification and to determine if Land Disposal Restrictions will apply. The required analyses may include Toxicity Characteristic Leaching Procedure (TCLP metals, or volatiles or semi-volatiles); pH; flashpoint; etc.
  4. Determine the primary and any additional secondary characteristics for each waste stream.
  5. Determine the regulated constituents associated with each characterization.
  6. Identify the hazardous waste number associated with each characterization using Schedules 1 – 3 and 5.
  7. Determine the Land Disposal Treatment requirements for each hazardous waste stream using Schedules 5 and 6.
  8. Ensure that each individual waste stream is separately registered in HWIN. **NOTE:** There are reduced requirements for Small Quantity Generators (i.e. produce less than 100 kg/month total of hazardous waste)
  9. Remove the registration for any *inactive* (i.e. are no longer being generated at the facility) subject wastes.
  10. Update HWIN for each hazardous organic hazardous waste subject to LDR requirements by June 30, 2009.
  11. Provide your receiver with a notification form (Part 2B of your registration) prior to shipping hazardous wastes, or prior to December 31, 2009 for organic hazardous waste streams.
  12. Keep records of LDR Notifications for at least 2 years. **NOTE:** Analytical data supporting this registration must be maintained for 3 years
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### How can LEHDER Assist?

#### Training:

LEHDER provides regulatory training to generators of hazardous wastes, to assist their understanding of the land disposal restrictions and how to properly classify their waste streams. To view the LEHDER training schedule, visit: [www.lehder.com/training](http://www.lehder.com/training)

#### Classification and Registration:

LEHDER assists our clients in the sampling, analysis and classification of waste streams. Based on this classification LEHDER can advise which streams will require pre-treatment, and assist in the selection of appropriate processing systems and disposal or recycling facilities. LEHDER can assist waste generators in the preparation of a waste analysis plan for waste streams that they are managing and treating themselves.

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**Helpful Web Links for HWIN** Please visit: [www.lehder.com/waste](http://www.lehder.com/waste)

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#### Upcoming Training at LEHDER: [www.lehder.com/training](http://www.lehder.com/training)

- Transportation of Dangerous Goods
- Train the Trainer – TDG Road
- Ontario Waste Generation & Transportation – Reg. 347
- Waste Management Training for HWIN Administrators and Practitioners
- Introduction to EH&S Legislation & Reporting
- The Globally Harmonized System (GHS) of Classification and Labelling of Chemicals
- You and Your Basic Comprehensive CofA
- Overview of Reg. 419 Local Air Quality

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#### About LEHDER

LEHDER is one of the largest Air Quality Management consulting companies in Canada. Our team of consulting professionals is built around our core strength in industrial environmental, health and safety management. LEHDER recognizes our client's need to make decisions that provide for operational flexibility while meeting regulatory, economic and social requirements. Visit our web pages at: [www.lehder.com](http://www.lehder.com)

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## LEHDER's 2009 Health Safety & Environmental Training Schedule - Ontario

CODE	TITLE	DESCRIPTION
ON-100	Transportation of Dangerous Goods	Shippers, receivers and carriers of dangerous goods will receive training to allow them to handle, offer or transport dangerous goods.
ON-101	Ontario Waste Generation & Transportation	Generators and carriers will receive training in order to classify and transport subject wastes under Ontario Regulation 347.
ON-102	Train the Trainer – TDG Road	An in-depth course designed to provide in-house instructors with materials and confidence to deliver TDG training.
ON-103	The Globally Harmonized System (GHS) of Classification and Labelling of Chemicals	This session will outline the purpose, scope and application of the GHS. What has transpired to date and how to implement GHS in Canada.
ON-104	Introduction to Environmental Health & Safety Legislation and Reporting Requirements	Designed for environmental and health and safety professionals to provide a good overview of environmental, health and safety legislation.
ON-106	You and Your Basic Comprehensive CofA	Personnel responsible for obtaining and complying with Certificates of Approval (Air) at Ontario facilities should attend this one day seminar to learn the latest information.
ON-107	Overview of Reg. 419 - Local Air Quality	Regulation 419 has introduced significant changes to how air quality is regulated in Ontario. There are many requirements and increased responsibilities for industrial facilities and environmental professionals.
ON-108	Waste Management Training for HWIN Administrators & Practitioners	Course specifically designed for Hazardous Waste Information Network (HWIN) Administrators and personnel that manage subject waste.

**Other Courses and Customized ON SITE Training Available  
Contact Mark Roehler Tel: 519-336-4101 ext. 224**

**LEHDER Environmental Services Limited**

704 Mara Street, Suite 210, Point Edward, Ontario, Canada N7V 1X4 Phone: (519) 336-4101 Fax: (519) 336-4311  
9954 67 Avenue, Edmonton, Alberta, Canada T6E 0P5 Phone: (780) 462-4099 Fax: (780) 462-4392

[www.lehder.com](http://www.lehder.com)

# LEHDER 2009 Training Schedule - Ontario

## ON-100 Transportation of Dangerous Goods

Fee: \$400.00 + GST

- ◆ TDG Act
- ◆ TDG Regulations
- ◆ Training Requirements
- ◆ Exemptions
- ◆ Classification
- ◆ Selecting Proper Shipping Name
- ◆ Means of Containment
- ◆ Safety Marks
- ◆ Documentation
- ◆ Spills/Accidental Release

## ON-101 Ontario Waste Generation & Transportation

Fee: \$400.00 + GST

- ◆ Background to Environmental Laws
- ◆ Dangerous Goods
- ◆ Classification of Wastes
- ◆ Penalties
- ◆ TDG Classification/Safety Marks
- ◆ Generator Registration/HWIN
- ◆ Land Disposal Restrictions (LDR)
- ◆ Means of Containment
- ◆ Waste Storage Requirements
- ◆ Selection of a Carrier and Disposal Facility
- ◆ Waste Manifests
- ◆ Spills/Accidental Release
- ◆ What Constitutes a Good Waste Management Program

## ON-102 Train the Trainer - TDG Road

Fee: \$675.00 + GST

### Day 1

- ◆ Introduction
- ◆ Transportation Regulations
- ◆ TDG Exemptions
- ◆ Classification of Dangerous Goods & Subject Wastes
- ◆ Interprovincial Movement/Export/Import of Hazardous Waste
- ◆ Packaging Specifications
- ◆ Selection of Means of Containment
- ◆ Labelling and Placarding
- ◆ Storage of Wastes
- ◆ Review

### Day 2

- ◆ Overview of Day 1
- ◆ Documentation
- ◆ Manifest completion
- ◆ How to select carrier / disposal facility
- ◆ Accidental Release
- ◆ What constitutes a good Dangerous Goods / Waste Management program
- ◆ Instructor's Guide
- ◆ Lesson Plan
- ◆ Instructor's Notes
- ◆ Guidelines for training
- ◆ Resources available
- ◆ Development of effective training skills
- ◆ Competency test

# LEHDER 2009 Training Schedule - Ontario

## ON-103 Globally Harmonized System – GHS

Fee: \$400.00 + GST

- ◆ Purpose, Scope and Application of the GHS
- ◆ Benefits and Principles of Harmonization
- ◆ Classification of hazardous substances and mixtures
- ◆ Comparison of GHS against existing regulatory systems
- ◆ Hazard Communication: Labelling
- ◆ Hazard Communication: Safety Data Sheets (SDS)
- ◆ Physical Hazards
- ◆ Health Hazards
- ◆ Environmental Hazards
- ◆ Implementation of the GHS in Canada

## ON-104 Introduction to Environmental, Health & Safety Legislation and Reporting Requirements

Fee: \$675.00 + GST

### Day 1

- ◆ Federal Regulatory Bodies (Roles and Responsibilities)
- ◆ Outline of Federal Legislation
- ◆ Canadian Environmental Protection Act (CEPA)
- ◆ Climate Change “Turning the Corner”
- ◆ National Pollutant Release Inventory
- ◆ Fisheries Act
- ◆ New Substance Notification Regulations
- ◆ Priority Substance List
- ◆ Chemical Management Plan
- ◆ Environmental Emergency (E2) Regulations
- ◆ Transportation of Dangerous Goods Act and Regulations
- ◆ Export/Import of Hazardous Waste and Hazardous Recyclable Material Regulation
- ◆ Interprovincial Movement of Hazardous Waste Regulations
- ◆ Hazardous Products Act
- ◆ Controlled Products Regulations
- ◆ WHMIS
- ◆ Consumer Chemicals and Container Regulations, 2001
- ◆ Globally Harmonized System (GHS)
- ◆ National Fire Code of Canada
- ◆ Bill C-45 amendment to criminal code
- ◆ Due Diligence

### Day 2

- ◆ Provincial, Municipal Regulatory Bodies
- ◆ Ontario Legislation
- ◆ Ontario Environmental Protection Act - Bill 133 “Environmental Penalties”
- ◆ Air Pollution – Local Air Quality (O.Reg. 419)
- ◆ Certificate of Approval
- ◆ Airborne Contaminant Discharge Monitoring and Reporting (O.Reg. 127)
- ◆ Environmental Bill of Rights
- ◆ Ozone Depleting Substances (O.Reg. 356)
- ◆ Refrigerants (O.Reg. 189)
- ◆ Solvents (O.Reg. 717)
- ◆ General – Waste Management (O.Reg. 347)
- ◆ Waste Audits and Waste Reduction Work Plans (O.Reg. 102)
- ◆ Industrial, Commercial and Institutional Source Separation Programs (O.Reg. 103)
- ◆ Ontario Water Resources Act and Regulations
- ◆ Sector Compliance Branch (formerly SWAT)
- ◆ Occupational Health and Safety Act
- ◆ Designated Substances
- ◆ New Agents in the Workplace
- ◆ Joint Health and Safety Committees
- ◆ Code of Exposure to Biological or Chemical Agents (O.Reg. 833)
- ◆ Industrial Establishments (O.Reg. 851)
- ◆ Pre-Start Health and Safety Review

# LEHDER 2009 Training Schedule - Ontario

## ON-106 You and Your Basic Comprehensive CofA

Fee: \$400.00 + GST

- ◆ Overview of Certificate of Approval (Air)
- ◆ Benefits of Basic Comprehensive CofA
- ◆ Key Definitions
- ◆ Management Tools for ensuring compliance
- ◆ Impact of Reg. 419 and new air dispersion models
- ◆ Open Discussion, questions, experience sharing
- ◆ Basic Comprehensive CofA Elements:
  - Limits to Flexibility
  - Performance Limits
  - Documentation Requirements
  - Modification Management
  - Record Keeping
  - Reporting

## ON-107 Overview of Reg. 419 – Local Air Quality

Fee: \$400.00 + GST

- ◆ Applicability
- ◆ New air models
- ◆ Emission Summary & Dispersion Modeling Report changes
- ◆ Alternative Standards
- ◆ Reporting and data retention requirements
- ◆ 2007 amendments
- ◆ Future trends

## ON-108 Waste Management Training for HWIN Administrators & Practitioners

Fee: \$400.00 + GST

- ◆ Overview of TDG Act, Regulations, Exemptions
- ◆ Overview of Reg. 347, LDR and Interprovincial movement of hazardous waste
- ◆ Classes of Dangerous Goods
- ◆ Selecting TDG proper shipping name, means of containment and safety marks
- ◆ Completing a Bill of Lading
- ◆ Accidental Release
- ◆ Waste Definitions Review
- ◆ Waste characterization and classification
- ◆ Assigning a Hazardous Waste Number
- ◆ Review of HWIN Administrator Responsibilities
- ◆ HWIN Registration Requirements and completion of Forms 2A and 2B
- ◆ Review of Land Disposal Restrictions and Treatment Standards
- ◆ Storage Requirements
- ◆ Selection of Carrier / Disposal Facility
- ◆ Completion of Manifest and Recordkeeping
- ◆ Spill Reporting
- ◆ Competency Test


**All courses are from 8:30 a.m. to 4:30 p.m. Fees include lunch and all Hand Out Materials.**

# LEHDER 2009 Training Schedule - Ontario

**Online Registration: [www.lehder.com/training](http://www.lehder.com/training)**

Please circle the desired date for each course you would like to attend:

Code	Point Edward Dates:		Sudbury Dates:		Fee Includes GST	
ON-100	May 12	Sep 21	May 4		\$420.00	
ON-101	May 13	Sep 22	May 5	Oct 7	\$420.00	
ON-102	Nov 3-4		Nov 16-17		\$708.75	
ON-103	May 14	Sep 14	Nov 5	May 8	Nov 20	\$420.00
ON-104	April 29-30	Sep 17-18	May 6-7	Nov 18-19	\$708.75	
ON-106	Sep 15		N/A		\$420.00	
ON-107	Sep 16		N/A		\$420.00	
ON-108	Sep 23		Oct 8		\$420.00	

First Name:	<p>Questions? Please contact :</p> <p>Ron Regier, General Manager  eMail: rregier@lehder.com  Tel: 519-336-4101 ext 221  Fax: 519-336-4311</p>  <p>www.lehder.com</p> <p>Payment is due upon registration. Please make cheque payable to:</p> <p>LEHDER Environmental Services</p> <p>GST #139829964RT</p>	
Last Name:		
Position:		
Company:		
Nature of Business:		
Address:		
City:		
PC:		Province:
Tel:		FAX:
Email:		

## TRAINING LOCATIONS

LEHDER Environmental Services  
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