



<h1>The MTCA 101 Workshop</h1> <p>Introduction to the Model Toxics Control Act (WAC 173-340)</p>	
<p>Course ID: WAPOL-401</p>	

The Northwest Environmental Training Center presents:

The MTCA 101 Workshop
Introduction to the Model Toxics Control Act (WAC 173-340)

Course ID: WAPOL - 401
 April 16, 2008, 8:30 A.M. to 5 P.M.
 Heritage Hall
 Thurston County Fairgrounds
 3054 Carpenter Rd SE
 Lacey, WA 98503

***Instructors:** Pete Kmet, P.E., Washington State Department of Ecology
 Priscilla Zieber, M.S., Integral Consulting, Inc.*

Course Description: The objective of this one day workshop is to introduce environmental consultants, federal, state and local government staff, and members of the general public to Washington's Model Toxics Control Act (WAC 173-340). This workshop will provide an overview of the MTCA administrative requirements and the associated cleanup standards. Participants will also learn the MTCA remedy selection process and public involvement requirements. Both instructors have a deep and thorough understanding of MTCA and will set aside time to answer questions at the end of each topic.

***This course is immediately followed by the two-day WAPOL-402: Establishing MTCA Cleanup Levels Workshop.**

About the Instructors: Pete Kmet is a senior environmental engineer in Washington State Department of Ecology's Toxics Cleanup Program—Policy and Technical Support Unit. Mr. Kmet has extensive experience with site remediation and has been a key participant in the development of numerous MTCA legislation amendments, and related rules, policies and technical guidance. He has presented at numerous MTCA workshops throughout the state. Mr. Kmet also serves on the City Council of Tumwater.

Priscilla Zieber is an expert in the fields of risk assessment, risk management, and risk communication. She has over 20 years of experience in the fields of risk assessment, toxicology, and hazardous waste. She has taught classes on the 2001 MTCA revisions and has applied the MTCA rule at numerous cleanup sites.

COURSE TOPICS

Overview of MTCA and the 2001 Rule Amendments	Proposed MTCA Amendments for Contaminant Mixtures
Rule Authority	Points of Compliance
Reporting Requirements	Overview of Terrestrial Ecological Evaluations (TEE)
Public Involvement Requirements	Protection of Groundwater - Soil Leaching Models
Remedy Selection Process	Residual Saturation Concentrations
Cleanup Standards, Cleanup Levels, and Remediation Levels	Vapor Pathway Evaluation
Overview of Method A, B, and C Cleanup Levels for Soil, Surface Water, and Groundwater	Special Requirements for Petroleum Sites
	Compliance Monitoring

Intended Audience: This course is intended for environmental professionals and other professionals seeking an improved understanding of the Model Toxics Control Act.

Course Materials: Attendees will receive a binder containing the workshop proceedings and reference material.

Course Credit: 0.7 Continuing Education Units (CEU's)

Registration:

WAPOL-401: \$235, *\$195

WAPOL-402: \$450, *\$375 *This course has a prerequisite: Introduction to MTCA (WAPOL-401) listed above.*

WAPOL 401 & 402 with an additional **\$90 discount** reflected: **\$595, *\$480**

(*Discount for Native American Tribes; nonprofits; government; students; teachers; and NAEP, NWAEP, and NEBC members). You may register via the link below or by calling the Northwest Environmental Training Center at (206) 762-1976.

Cancellation Policy: *Registration fees are fully refundable up to 30 days prior to the event and 50 percent refundable (or 100% credit) thereafter up to the day prior to the event. Registration may occur up to the day prior to the event provided that space is available.*

Northwest Environmental Training Center

A nonprofit 501(c)(3) program of the Northwest Environmental Education Council
650 S. Orcas Street, Suite 220 | Seattle, Washington 98108
Phone: (206)762-1976 | Fax: (206)762-1979
www.nwetc.org



The MTCA Cleanup Levels Workshop

Establishing Soil, Groundwater, and Surface Water Cleanup Levels Under the Model Toxics Control Act

Course ID: WAPOL-402

The Northwest Environmental Training Center presents:

The MTCA Cleanup Levels Workshop

Establishing Soil, Groundwater, and Surface Water Cleanup Levels Under the Model Toxics Control Act

Course ID: WAPOL - 402

April 17 - 18, 2008, 8:30 A.M. to 5 P.M.

Heritage Hall

Thurston County Fairgrounds

3054 Carpenter Rd SE

Lacey, WA 98503

Instructors: Priscilla Zieber, M.S., Integral Consulting, Inc.
Pete Kmet, P.E., Washington State Department of Ecology

Course Description: This course provides attendees with an in-depth understanding of the procedures for establishing cleanup levels and points of compliance under the Model Toxics Control Act (WAC 173-340). The course covers procedures for establishing cleanup levels using Methods A, B, and C for groundwater, surface water, and soil, including a discussion of recent rule revisions related to dioxins/furans, PCBs, and carcinogenic PAHs. Included is discussion of applying the terrestrial ecological evaluation process to soils at sites. The course will also include an overview of Washington State Department of Ecology's three - and four-phase partitioning models and use of leaching test methods for determining soil concentrations that are protective of groundwater. Attendees will have an opportunity to walk through the process of establishing cleanup standards using case studies. Both instructors have a deep and thorough understanding of MTCA and will set aside time to answer questions at the end of each topic.

***This course has a prerequisite - WAPOL-401: Introduction to the Model Toxics Control Act.**

About the Instructors: Pete Kmet is a senior environmental engineer in Washington State Department of Ecology's Toxics Cleanup Program—Policy and Technical Support Unit. Mr. Kmet has extensive experience with site remediation and has been a key participant in the development of numerous MTCA legislation amendments, and related rules, policies and technical guidance. He has presented at numerous MTCA workshops throughout the state. Mr. Kmet also serves on the City Council of Tumwater.

Priscilla Zieber is an expert in the fields of risk assessment, risk management, and risk communication. She has over 20 years of experience in the fields of risk assessment, toxicology, and hazardous waste. She has taught classes on the 2001 MTCA revisions and has applied the MTCA rule at numerous cleanup sites.

COURSE TOPICS

Hands-On Case Studies and Questions (integrated throughout workshop)	Direct Contact Soil CULs
Process for Reaching No Further Action	Modeling the Leaching Pathway (3- and 4-phase models)
Conceptual Site Model Development for MTCA	Vapor Pathway and Dermal Contact (applicability, how to evaluate)
Land Use and Beneficial Uses of Groundwater and Surface Water	Determining Residual Saturation Concentrations
Applicability of Methods A, B, and C	Terrestrial Ecological Evaluations (TEE) - Simplified, Site-Specific, and Exclusions

Identifying Indicator Hazardous Substances (screening levels, frequency of detection, natural background concentrations)

Surface Water CULs (ARARs, Equations) and Points of Compliance (POCs)

Groundwater CULs (ARARs, Equations, Protection of Surface Water) and POCs

Determine POCs for Soil

Evaluating Compliance with CULs (direct comparison, 3 part statistical rule)

Determining Whether Institutional Controls are Required

Overview of Proposed Amendments: clarifying cleanup levels for mixtures of dioxins/furans; carcinogenic PAHs, and PCBs

Intended Audience: This course is intended for environmental professionals seeking an improved understanding of the establishment of cleanup levels under MTCA.

Course Materials: Attendees will receive a copy of the course proceedings, reference materials, and a certificate of completion.

Course Credit: 1.3 Continuing Education Units (CEU's)

Registration:

WAPOL-401: \$235, *\$195

WAPOL-402: \$450, *\$375 *This course has a prerequisite: Introduction to MTCA (WAPOL-401) listed above.*

WAPOL 401 & 402 with an additional **\$90 discount** reflected: **\$595, *\$480**

(*Discount for Native American Tribes; nonprofits; government; students; teachers; and NAEP, NWAEP, and NEBC members). You may register via the link below or by calling the Northwest Environmental Training Center at (206) 762-1976.

Cancellation Policy: *Registration fees are fully refundable up to 30 days prior to the event and 50 percent refundable (or 100% credit) thereafter up to the day prior to the event. Registration may occur up to the day prior to the event provided that space is available.*

Northwest Environmental Training Center

A nonprofit 501(c)(3) program of the Northwest Environmental Education Council

650 S. Orcas Street, Suite 220 | Seattle, Washington 98108

Phone: (206)762-1976 | Fax: (206)762-1979

www.nwetc.org

Thurston County Fairgrounds - *Lacey, Washington*



Accommodations near:

Thurston County Fairgrounds Heritage Hall

3054 Carpenter Road SE
Lacey, WA 98503
(360) 786-5453

<p>Quality Inn & Suites 120 College Street SE Lacey, WA</p> <p>www.qualityinn.com</p>	<p>(360) 493-1991</p>	<p>Red Lion Hotel - Olympia 2300 Evergreen Park Dr SW Olympia, WA</p> <p>http://redlion.rdln.com</p>	<p>(360) 943-4000</p>
<p>Lighthouse Bungalow 1215 E Bay Dr NE Olympia, WA</p> <p>www.lighthousebungalow.com</p>	<p>(360) 754-0389</p>	<p>Comfort Inn of Lacey 4700 Park Center Ave NE Lacey, WA</p> <p>www.comfortinn.choicehotels.com</p>	<p>(360) 456-6300</p>
<p>Ameritel Inn - Olympia 4520 Martin Way E Olympia, WA</p> <p>www.ameritelinns.com</p>	<p>(360) 459-8866</p>	<p>Quality Inn 1211 Quince Street SE Olympia, WA</p> <p>www.qualityinn.choicehotels.com</p>	<p>(360) 943-4710</p>
<p>Phoenix Inn Suites - Olympia 415 Capitol Way N Olympia, WA</p> <p>www.phoenixinnsuites.com</p>	<p>(360) 570-0555</p>	<p>Super 8 Motel 112 College Street SE Lacey, WA</p> <p>www.super8.com</p>	<p>(360) 459-8888</p>

Northwest Environmental Training Center

A nonprofit 501(c)(3) program of the Northwest Environmental Education Council
650 S. Orcas Street, Suite 220 | Seattle, Washington 98108
Phone: (206)762-1976 | Fax: (206)762-1979
www.nwetc.org

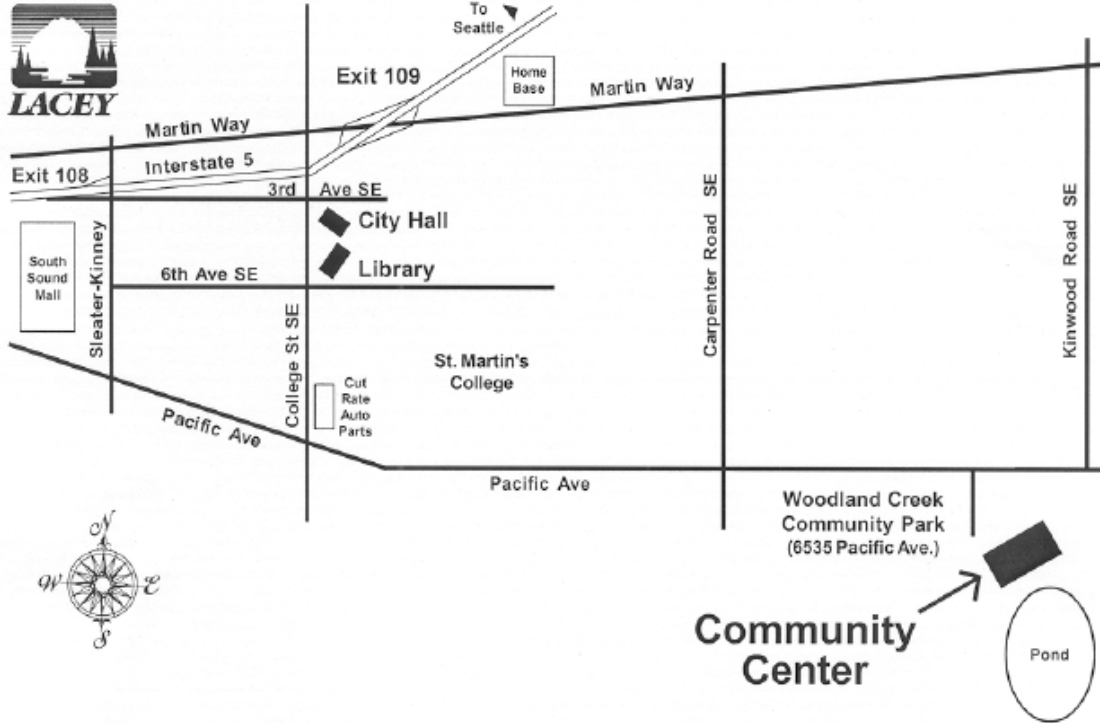
Lacey Community Center

Located in the Woodland Creek Community Park

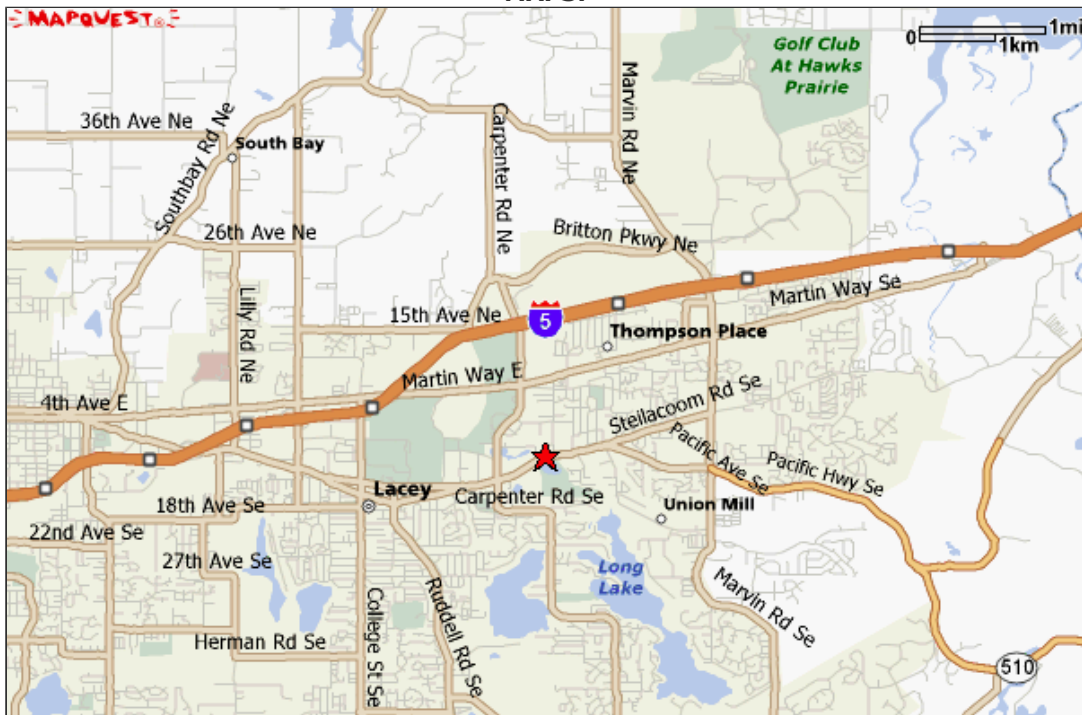
6729 Pacific Ave SE | Lacey, Washington 98503 | 360.491.0857

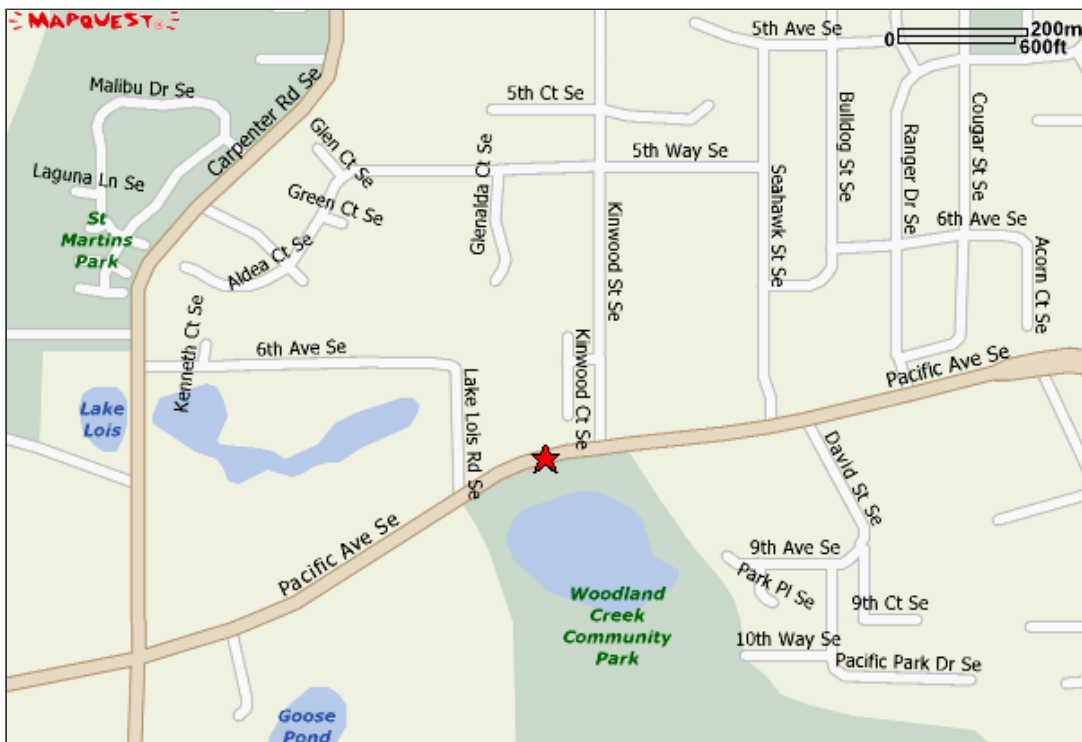
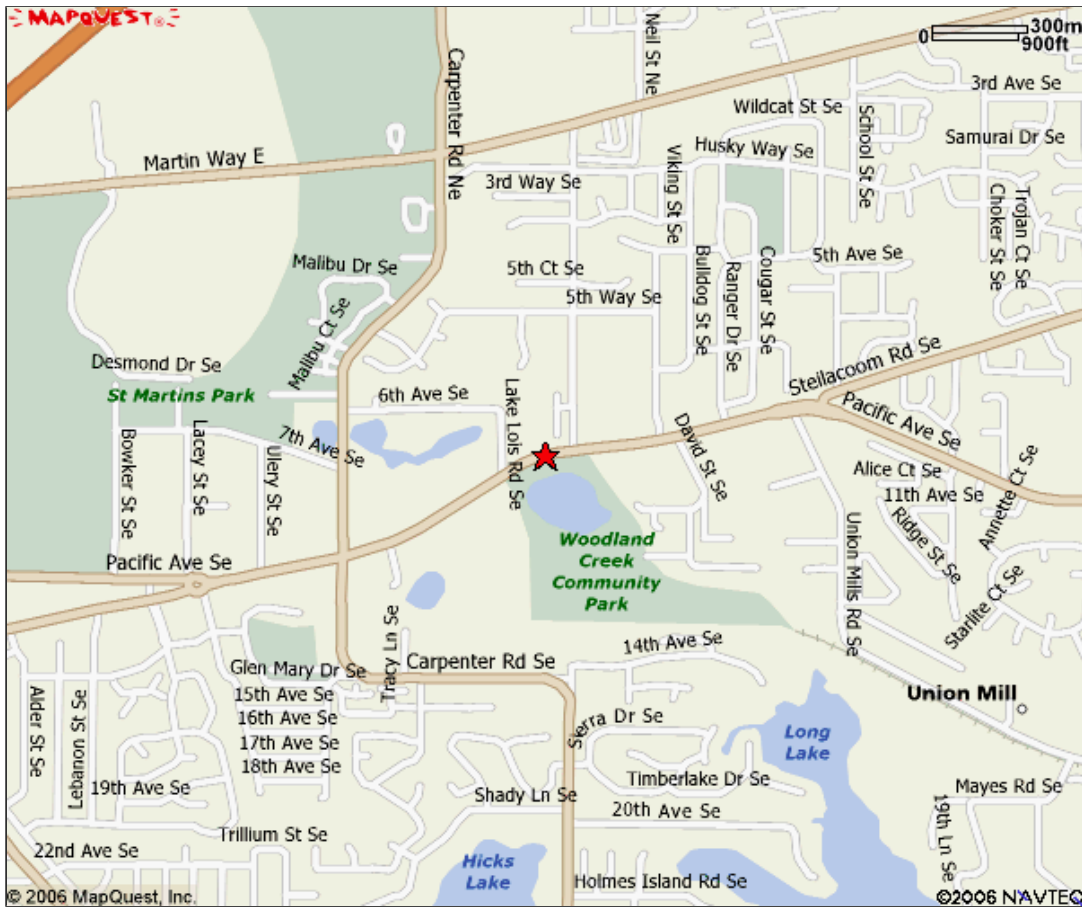
From I-5:

- Take Exit 109 to Martin Way
- Go east on Martin Way one mile to Carpenter Road
- Turn right on Carpenter Road
- Proceed one mile to Pacific Avenue
- Turn left at Pacific Avenue
- Proceed 0.3 mi to the Woodland Creek Community Park



MAPS:







NORTHWEST ENVIRONMENTAL TRAINING CENTER
650 S Orcas Street, Suite 220, Seattle, Washington 98108
Ph: (206)762-1976, Fax: (206)762-1979
www.nwetc.org

REGISTRATION FORM

Name: _____ Today's Date: _____

Agency/Organization: _____

Street Address: _____ Mail Code: _____

Street Address (cont.): _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____ Title: _____

Indicate Course(s):

The MTCA 101 Workshop \$ _____

Course ID: WAPOL-401, April 16, 2008
Thurston County Fairgrounds, 3054 Carpenter Rd. SE, Lacey, WA 98503
Registration: \$235 (\$195*)

The MTCA Cleanup Levels Workshop \$ _____

Course ID: WAPOL-402, April 17-18, 2008
Thurston County Fairgrounds, 3054 Carpenter Rd. SE, Lacey, WA 98503
Registration: \$450 (\$375*)

*Reduced rates for Native American Tribes; nonprofits; government; students; and NEBC, NAEP, and NWAEP members. **An additional \$50 discount applies to all registrants when registering for both classes.**

Payment Method: Check PO Credit Card (Visa or Mastercard) Total: \$ _____

Credit Card or PO #: _____ Exp: _____

Notes: Please make checks payable to Northwest Environmental Training Center.
Cancellation Policy: Registration fees are fully refundable up to 30 days prior to the event and 50 percent refundable (or 100% credit) thereafter up to the day prior to the event. Registration may occur up to the day prior to the event provided that space is available.