

# Benjamin Thomas    Underground Storage Tank Professional

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## Summary

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Ben Thomas brings to the UST industry over 28 years of experience, networking and ideas to help owners and inspectors solve complex technical problems in the management of underground storage tank systems. Mr. Thomas' experience goes back to 1986, when he supervised UST removals in Vermont. Between 1989 and 1995, Mr. Thomas oversaw cleanup of leaking UST sites in northern Alaska. From 1995 to 2002, he ran Alaska's UST leak prevention program. Mr. Thomas gained national attention for his innovative work in web page development, outreach material, financial responsibility compliance, and most notably the Alaska third party inspection program. Since 2002, Mr. Thomas's principal focus has education, training, and outreach to the nation's UST owners, operators, inspectors and technicians.

## UST Innovations

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Ben Thomas has been an innovator in the field of UST education since 1996. Here is a list of his "firsts" in the industry.

- 1996 Created and launched one of the nation's first state UST web pages in Alaska.
- 2003 Taught the first-ever State approved Class A/B course in the nation in Oregon.
- 2004 Designed and created the first ever state online training UST program in Montana.
- 2007 Created and taught first UST class A/B UST operator course in Kansas.
- 2009 Created and launched the first commercially available online training for class C operators nationwide. [www.USTtraining.com](http://www.USTtraining.com)
- 2009 Created and taught first ever class A/B UST webinar and first class AB UST operator course in Colorado.
- 2010 Created and taught the first Class A/B course in US Virgin Islands.
- 2010 Created and taught first Class A/B UST operator taught in Wisconsin.
- 2011 Created the first Class A/B UST operator training course in Puerto Rico and first taught in Spanish.
- 2011 Created and taught the first UST Class A/B UST operator training course taught in West Virginia.
- 2012 Created and taught the first UST Class A/B UST operator training course in Guam and CNMI.
- 2013 Helped create [KY TOOLS](#) (Tank Operator Online Learning System) in Kentucky.
- 2014 Published [Tank Savvy Minute](#), the first free series of UST training videos online.
- 2015 Taught the first Class A/B and C UST operators at the [Red Hill Tank Farm](#), the world's largest known UST system, at Joint Base Pearl Harbor Hickam, Hawaii.
- 2015 Created and taught the first Class A/B and C UST operator course in [Nebraska](#).
- 2016 Taught the first exclusively "Subpart K" certified Class A/B course for airport hydrant and field constructed UST operators, Guam.

## Current Enterprises

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- **UST Training.** President. In 2004, Ben Thomas helped create and now runs a business to provide live seminars, webinars, and internet-based training to the UST industry. Clients include state, federal and tribal UST inspectors, service providers and UST operators from all over the United States. [www.USTtraining.com](http://www.USTtraining.com)
- **Ben Thomas Associates, Inc.** Principal. Since November of 2001, Ben Thomas provides consulting services to clients in the UST industry throughout the United States. He also provides training for UST government inspectors and UST owners and operators; develops original outreach material; creates interactive, web-based training programs; consults and analyzes UST management programs; performs facility audits; and serves as an expert witness. Clients include United States Air Force, United States Post Office, Veterans Administration, United States Environmental Protection Agency, Georgia Institute of Technology, University of Wisconsin-Madison, State of Maine, State of New Jersey, State of Montana, State of Idaho, State of New Mexico, State of Oregon, State of Kentucky, State of Wisconsin, City of Chicago, Boeing, Inter Tribal Council of Arizona, Indian Health Services, Cherokee Nation, Seneca Nation of Indians, Pueblo of Laguna, National Institute for Storage Tank Management, Oregon Petroleum Association, Northwest Pump, National Testing Contractor Association, C-Store Canada, ABS Consulting, Fred Meyer, Albertsons, American Petroleum Institute, Tesoro Petroleum, BP/ARCO, ConocoPhillips and thousands of small independent UST owners and operators.

## Previous Experience

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- **Alaska Department of Environmental Conservation,** UST Leak Prevention Program Coordinator, February 1995 to June 2002, Juneau, Alaska. Duties included: designing and administering the Alaska third party inspection program, including outreach, technical assistance, reviewing, tagging and enforcement of UST systems; licensing, training and administering of UST workers and inspectors; developing statewide enforcement policies for leak detection, spill prevention and financial responsibility; chairing the Alaska Technical Review Committee to review/improve ICC UST exams; assisting the public in interpreting UST regulations by phone, e-mail and in person, and by developing and presenting workshops, newsletters, media interviews, web sites, public notices and mass mailing; administering the Financial Responsibility compliance program; acting as web administrator for UST program for development and maintenance; and performing UST site inspections and training for operators.
- **Alaska Department of Environmental Conservation** Leaking UST Project Manager, October 1990 to February 1995, Fairbanks, Alaska. Duties included: reviewing leaking Underground Storage Tank and Contaminated Site investigations and corrective action plans for technical and regulatory compliance; managing cleanup activities at approximately 100 active contaminated sites; developing and reviewing regional program policy documents; conducting field investigations regarding the discharge spills of hazardous substances; developing, mediating, and implementing multi-party agreements for regional ground water investigations; preparing and overseeing cleanup grants for term contractors; and providing technical and regulatory assistance to officials, media, and the public.
- **Alaska Department of Environmental Conservation** College Intern IV, May 1989 to October 1990, Fairbanks, Alaska. Duties included: developing and reviewing regional pollution control policy plans, investigating hazardous substance spills and monitored site cleanup activities, and assisting the public in understanding environmental regulations.

- **Vermont Department of Environmental Conservation**, Environmental Technician, August 1986 to August 1987, Waterbury Vermont. Duties included: supervising the removal of leaking underground storage tanks, directing on-site environmental remediation, conducting sampling and analysis of soil and ground water conditions, and assisting the public in understanding environmental regulations.

## Education

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- **University of Alaska-Fairbanks**, September 1987 to May 1990, Fairbanks, Alaska  
Bachelor of Science in Natural Resources Management, May 1990  
Emphasis: Environmental Law, Resource Policy, and Rural Development
- **Sterling College**, October 1983 to June 1985, Craftsbury Common, Vermont  
Associate of Arts in Natural Resource Management, June 1985  
Emphasis: Social, Economic and Ecological aspects of Resource Management

## Professional Organizations and Memberships

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- **PEI RP 900 Committee**, 2016-present
- **Colorado Wyoming Petroleum Marketers Association**- 2009-present
- **Petro-Tite**, Tightness Tester-2003-2005
- **Petroleum Equipment Institute**-2003-present
- **Oregon Petroleum Association**-2003-present
- **Steel Tank Institute** Corrosion Tester-2001-2005
- **EPA UST/LUST Conference Planning Committee**-2001-2002
- **EPA Region 10 States UST Operation and Maintenance Group**-2001
- **ASTSWMO UST Task Force**- Association of State and Territorial Solid Waste Management Officials-1999-2002
- **Underground Storage Tank Technical Review Committee**- Alaska Advisory Committee for UST Worker Examination, Chair, 1995-2002
- **International Conference of Building Officials**- UST Certification Advisory Committee, Member, Whittier, CA, 1995-00, Chair 2000-2002
- **American Society of Testing and Materials Subcommittee**-Development of UST Facility Compliance Inspection Program, Washington DC, 1996
- **Division Information and Technology Workgroup**- ADEC, 1995-1999

## Workshop Presenter/Organizer

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- **Washington Class A/B UST Operator Training**, Everett, WA, Aug. 25, 2016
- **Navajo Nation UST Operator Training Webinar**, Aug. 17, 2016
- **CNMI Class A/B UST Operator Training**, Saipan, MP, Jun. 22, 2016
- **Guam FCT/AHS Class A/B UST Operator Training**, Tamuning, GU, Jun. 22, 2016
- **Guam Class A/B UST Operator Training**, Tamuning, GU, Jun. 15, 16, 17, 2016
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Jun. 2, 2016
- **Navajo Nation UST Operator Training Webinar**, May 11, 2016
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Apr. 27, 2016
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Mar. 30, 2016
- **Hawaii Class A/B and C UST Operator Training**, Joint Base Pearl Harbor Hickam, HI, Mar. 21-25, 2016
- **Virginia Class A/B and C UST Operator Training**, Langley-Eustis AFB, NJ, Feb. 25-26, 2016

- **New Jersey Class A/B and C UST Operator Training**, McGuire AFB, NJ, Feb. 22-23, 2016
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Feb. 19, 2016
- **Arkansas Class C UST Operator Training**, Little Rock AFB, AR, Feb. 4, 2016
- **Arizona Class A/B and C UST Operator Training**, Davis-Mathon AFB, AZ, Jan 14-15, 2016
- **Arizona Class A/B and C UST Operator Training**, Luke AFB, AZ, Jan. 11-12, 2016
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Jan 6, 2016
- **Florida Class A/B UST Operator Training**, McDill AFB, FL, Dec. 16-2015
- **Navigating the new EPA UST rules: What it means for you**, Webinar, Dec. 15, 2015
- **Navigating the new EPA UST rules: What it means for USPS**, Webinar, Dec. 10, 2015
- **Washington Class A/B and C UST Operator Training**, Puget Sound FISC, WA, Dec. 3-4, 2015
- **Washington Class A/B and C UST Operator Training**, Joint Base Lewis McChord, WA, Nov. 30 – Dec. 1, 2015
- **Advanced UST Inspector Training**, US EPA Region 2, Rehoboth Beach, DE, Nov. 3-5, 2015
- **Washington Class A/B and C UST Operator Training**, Fairchild AFB, WA, Nov. 28-29, 2015
- **Oregon Class A/B UST Operator Training**, Hermiston, OR, Nov. 27, 2015
- **Emergency Response UST Operator Training**, Pope AAF, Fayetteville, NC, Oct. 6, 2015
- **National Tanks Conference, Operator Training on Trial**, Phoenix, AZ, Sep. 14-16, 2015
- **Nebraska Advanced UST Inspector Training**, NSFM, Lincoln, NE, Aug. 31- Sep. 4, 2015
- **Advanced UST Operator Training**, Appleton WI and Blaine, MN, Jun. 16 and 18, 2015
- **UST Inspector Boot Camp**, Olympia, WA, Mar. 31, 2015
- **Hawaii Class A/B and C UST Operator Training**, Joint Base Pearl Harbor Hickam, HI, Feb. 23-26, 2015.
- **Washington Class A/B UST Operator Training**, Boeing Field, Everett, WA, Dec. 12, 2014
- **Washington Class A/B UST Operator Training**, Longview, WA, Nov. 12, 2014
- **Washington Class A/B UST Operator Training**, Newhalem, WA, Aug. 12, 2014
- **CNMI Class A/B UST Operator Training**, Saipan, MP, July 28, 2014
- **Montana UST Inspector Training**, Helena, MT, May 14, 2014
- **Washington Class A/B UST Operator Training**, Spokane, WA Dc. 13, 2013
- **Oregon Class A/B UST Operator Training**, Hillsboro, OR, Oct. 22, 2013
- **Washington Class A/B UST Operator Training**, Spokane, WA, Oct. 11, 2013
- **Then and Now: A Quarter-Century Perspective on UST Compliance**, Moderator, 2013 National Tanks Conference and Expo, Denver, CO, Sep. 16, 2013
- **Washington Class A/B UST Operator Training**, Seattle, WA, Sep. 11, 2013
- **Washington Class A/B UST Operator Training**, Stehekin, WA, July 26, 2013
- **Washington Class A/B UST Operator Training**, Oak Harbor, WA, July 23, 2013
- **Oregon Class A/B UST Operator Training**, Hermiston, OR, Jun. 13, 2013
- **DC Boot Camp for UST Inspectors**, Crystal City, VA, Mar. 19-21, 2013
- **Turtle Mountain Band of the Chippewa UST Training**, Belcourt, ND, Nov. 28, 2012
- **Webinar: Washington Class A/B Operator Training**, Nov. 15, 2012

- **Washington Class A/B UST Operator Training**, Silverdale, WA, Nov. 13, 2012
- **Washington Class A/B UST Operator Training**, Freeland, WA, Nov. 7, 2012
- **Washington Class A/B UST Operator Training**, Bellevue, WA Oct. 25, 2012
- **Webinar: Washington Class A/B UST Operator Training**, Oct. 22, 2012
- **Webinar: Colorado Class A/B Operator Training**, Oct. 16, 2012
- **Webinar: Washington Class A/B Operator Training**, Oct. 4, 2012
- **Webinar: Washington Class A/B Operator Training**, Oct. 2, 2012
- **Class A/B UST Operator Training**, San Juan, Puerto Rico, Sept. 25, 26, 2012
- **Washington Class A/B UST Operator Training**, Bellevue, WA, Sep. 18, 2012
- **Webinar: Colorado Class A/B Operator Training**, Aug. 22, 2012
- **Class A/B UST Operator Training**, Guam, Jul. 10, 11, 19, 2012
- **Class A/B UST Operator Training**, Saipan, Jul. 17, 18, 2012
- **UST Boot Camp**, Saukville, WI, Jun. 25-29, 2012
- **Webinar: Wisconsin Class A/B Operator Training**, Jun. 4, 2012
- **Webinar: Wisconsin Class A/B Operator Training**, Apr. 26, 2012
- **UST Inspector Training**, State of Tennessee, Pikeville, TN, Apr. 10-12, 2012
- **Oregon Service Provider Training**, OR DEQ, Pendleton, Portland, Apr. 3, 4, 5, 2012
- **Oregon Service Provider Training**, OR DEQ, Pendleton, Portland, Mar. 28, 29, Apr. 1, 2012
- **2012 National Tanks Conference**, The Good, The Bad and the Ugly of UST Training, and 2012: A Tank Odyssey: Demonstrations on Emerging Digital Solutions for UST Compliance Management, St. Louis, MO, Mar. 19-21, 2012
- **Webinar: Wisconsin Class A/B Operator Training**, Feb. 8, 2012
- **Webinar: Colorado Class A/B Operator Training**, Feb. 1, 2012
- **Webinar: Wisconsin Class A/B Operator Training**, Jan.10, 2012
- **Webinar: Wisconsin Class A/B Operator Training**, Dec. 16, 2011
- **Webinar: Colorado Class A/B Operator Training**, Dec. 7, 2011
- **Seneca Nation of Indians, UST Operator Training**, Buffalo, NY, Nov. 15, 2011
- **Iowa DNR UST Inspector Training**, Moines, IO, Nov. 2-3, 2011
- **Webinar: Wisconsin Class A/B Operator Training**, Oct. 26, 2011
- **Webinar: NEWIPCC Region 6 Advanced Inspector Training**, Oct. 11-13, 2011
- **Oregon UST Operator Training**, Ben Thomas Associates, 150+ classes since June 2003 in Portland, Medford, Roseburg, Bend Pendleton, Eugene, Albany, Coos Bay, OR
- **Webinar: Wisconsin Class A/B Operator Training**, Sep. 28, 2011
- **Webinar: Colorado Class A/B Operator Training**, Sep. 7, 2011
- **Webinar: West Virginia Class A/B Operator Training**, Jul. 23, 2011
- **Webinar: Wisconsin Class A/B Operator Training**, Aug. 16, 2011
- **Webinar: Wisconsin Class A/B Operator Training**, Aug. 10, 2011
- **Webinar: West Virginia Class A/B Operator Training**, Jul. 20, 2011
- **Webinar: Wisconsin Class A/B Operator Training**, Jul. 6, 2011
- **Webinar: Colorado Class A/B Operator Training**, Jul. 13, 2011
- **ITCA Advanced Inspector Training**, May 15-16, 2011 Seattle, WA
- **Webinar: Wisconsin Class A/B Operator Training**, Jun. 8, 2011
- **Webinar: Colorado Class A/B Operator Training**, Jun. 7, 2011
- **Webinar: Wisconsin Class A/B Operator Training**, Jun. 1, 2011
- **Webinar: West Virginia Class A/B Operator Training**, May 25, 2011

- **UST Boot Camp**, May 16-20, 2011, Saukville, WI
- **Webinar: Wisconsin Class A/B Operator Training**, May 11, 2011
- **Webinar: West Virginia Class A/B Operator Training**, May 4, 2011
- **Wisconsin Class A/B Operator Training, Live**, Waukesha, Madison, Saukville, WI Apr. 18, 19, 21, 2011
- **Webinar: Colorado Class A/B Operator Training**, Apr. 14, 2011
- **Webinar: West Virginia Class A/B Operator Training**, Apr. 16, 2011
- **NEIWPC Inspector Training**, Las Vegas, NV, Apr. 5-6, 2011,
- **Webinar: Wisconsin Class A/B Operator Training**, Mar. 30, 2011
- **Webinar: NWETC UST Inspection**, Mar. 22-23, 2011
- **Webinar: Colorado Class A/B Operator Training**, Mar. 17, 2011
- **Webinar: West Virginia Class A/B Operator Training**, Mar. 2, 2011
- **Webinar: Colorado Class A/B Operator Training**, Feb. 16, 2011
- **UST Operator Training**, Aguadilla, Fajardo, San Juan, Puerto Rico, Feb. 1, 3, 7 and 9, 2011
- **Webinar: NWETC UST Installation**, Jan. 18, 2011
- **Webinar: Colorado Class A/B Operator Training**, Dec. 7, 2010
- **Webinar: Wisconsin Class A/B Operator Training**, Dec. 6, 2010
- **Webinar: NEIWPC Interstitial Monitoring**, Dec. 6, 2010
- **Tennessee UST Advanced Inspector Training**, Henry Horton State Park, TN, Nov. 30- Dec. 2, 2010
- **Webinar: Colorado Class A/B Operator Training**, Nov. 16, 2010
- **Webinar: Wisconsin Class A/B Operator Training**, Nov. 3, 2010
- **Webinar: Wisconsin Class A/B Operator Training**, Sep. 29, 2010
- **5-Day UST Boot Camp**, Saukville, WI, Oct. 18-22, 2010,
- **EPA UST Inspector Training**, Chicago, IL, Sep. 7, 2010
- **Webinar: Colorado Class A/B Operator Training**, Sep. 1, 2010
- **Advanced UST Systems Training**, Bangor Submarine Base, Silverdale, WA, Jul. 19, 2009
- **Webinar: Colorado Class A/B Operator Training**, Jul. 7, 2010
- **Oak Ridge National Laboratory UST System Basics Webinar**, Jun. 29, 2010
- **Webinar: Colorado Class A/B Operator Training**, Jun. 2, 2010
- **City of Chicago UST Inspector Refresher Course**, Chicago, IL, May 26, 2010
- **UST Operator Training**, St. Thomas/St. Croix USVI May 5-6, 2010
- **Webinar: Colorado Class A/B Operator Training**, Apr. 29, 2010
- **UST Operator Training Overview**, WPMCA Trade Show, Madison, WI, May 20, 2010
- **Webinar: Colorado Class A/B Operator Training**, Mar. 25, 2010
- **Webinar: Colorado Class A/B Operator Training**, Feb. 24, 2010
- **Webinar: Colorado Class A/B Operator Training**, Feb. 18, 2010
- **Webinar: Colorado Class A/B Operator Training**, Jan. 19, 2010
- **Webinar: Inspector Training**, Jan. 13-14, 20-21, 2010
- **Webinar: UST Installation Training**, Jan. 6-7, 2010
- **Webinar: Colorado Class A/B Operator Training**, Dec. 29-30, 2009
- **Webinar: Colorado Class A/B Operator Training**, Dec. 15-16, 2009
- **Webinar: Colorado Class A/B Operator Training**, Dec. 9-10, 2009
- **UST Inspector Training**, State of Tennessee, Nashville, TN, Dec. 1-3, 2009
- **Webinar: Colorado Class A/B Operator Training**, Nov. 4-5, 2009
- **Webinar: Colorado Class A/B Operator Training**, Oct. 14-15, 2009
- **Webinar: Colorado Class A/B Operator Training**, Sept. 23-24, 2009
- **UST 5-Day Bootcamp**, Sept. 14-18, 2009, Saukville, WI
- **Webinar: Colorado Class A/B**

- Operator Training**, Sept. 2-3, 2009
- **Webinar: Colorado Class A/B Operator Training**, Aug. 5-6, 2009
- **CWPMA Trade Show presentation on UST Operator Training**, Keystone, CO, Aug. 3, 2009
- **Webinar: Colorado Class A/B Operator Training**, Jul. 15-16, 2009
- **Webinar: Colorado Class A/B Operator Training**, Jul. 1-2, 2009
- **UST Systems Training**, Bangor Submarine Base, Silverdale, WA, Jun. 8-9, 2009
- **Webinar: Colorado Class A/B Operator Webinar**, Jun. 2-3, 2009
- **Webinar: Colorado Class A/B Operator Training**, May 5-6, 2009
- **Webinar: UST Operator Training Overview of States**, Mar. 3, 2009
- **Webinar: UST Operator Training Overview of States**, Mar. 10, 2009
- **5-Part Webinar Series for Oregon UST Service Providers**, Mar. 12, 17, 18, 19 & 24, 2009
- **National UST/LUST Conference**, Sacramento, CA, Mar. 29-Apr. 1, 2009
- **Webinar: UST Operator Training for Tribes**, Apr. 14, 2009
- **Webinar: UST Operator Training Overview of States**, Apr. 15, 2009
- **UST Inspector 5-Day Bootcamp**, Saukville, WI, Feb. 2-6, 2009
- **Webinar: Training Overview of States**, Feb. 11, 2009
- **Webinar: Colorado UST Operator Training**, Feb. 25, 2009
- **UST/AST O&M Operator Training**, Pittsburgh, PA, Dec. 3-4, 2008
- **UST O & M Operator Training**, Laguna, NM, Dec. 9-10, 2008
- **UST Inspector Training Seminar on ATGs**, Saukville, WI, Nov. 18-19, 2008
- **NWETC's Inspector Class**, Seattle, WA, Oct. 16-17, 2008
- **NWETC's UST Installer Class**, Seattle WA, Oct. 15, 2008
- **UST Operator Training, Seneca Nation of Indians**, Salamanca, NY, Sep. 24, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Chicago, IL, Sep. 9-10, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Denver, CO, Aug. 19-20, 2008
- **UST Inspector Training**, Chicago, IL, Jun. 30-Jul. 2, 2008
- **Idaho UST Inspector Class**, Boise, ID, Jun. 23-27, 2008
- **Kansas UST Operator Training Class A and B**, Garden City, Jun. 2, and Hays, Jun. 4, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Los Angeles, CA, May 27-28 2008
- **Advanced Inspector Training**, US EPA Region 9, Las Vegas, NV, May 22, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"** Las Vegas, NV, May 20-21, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Philadelphia, PA, May 13-14, 2008
- **Audio Conference on UST Operator Training**, May 7, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Dallas, TX, Apr. 29-30, 2008
- **Advanced Inspector Training for Automatic Tank Gauge Systems**, Waukesha, WI, Apr. 15-16, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Atlanta, GA, Mar. 20-21, 2008
- **Veterans Administration UST/AST 2-Day Seminar**, Syracuse, NY, Mar. 13-14, 2008

- **UST Service Provider Seminars**, Oregon DEQ, Mar. 3, 2008 in Eugene, OR, and Mar. 5 and 6, 2008, Portland, OR
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Seattle, WA, Feb. 12-13, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Washington DC, Jan. 9-10, 2008
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Edison, NJ, Dec. 12-13, 2007
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, San Juan, PR, Dec. 4-5, 2007
- **Operator Training Plenary Session**, ASTSWMO State - EPA Energy Policy Act Implementation Meeting, DC, Nov. 27-28, 2007
- **Intermediate and Advanced UST Inspector Training**, Kentucky DEP, Frankfort, KY, Nov. 26-30, 2007
- **Advanced Inspector Training for Automatic Tank Gauge Systems**, Appleton, WI, Nov. 14-15, 2007
- **NISTM 3rd Annual UST Conference**, Atlanta, GA, Nov. 5-6, 2007
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"**, Washington DC, Oct. 17-18, 2007
- **Oregon UST Operator Training**, Portland, OR, Oct. 3, 2007
- **UST Operator Training: Building for Success** Webinar, EPA Region 10, Olympia, WA, Sep. 26, 2007
- **Class A and B Operator Training**, Petroleum Marketers & Convenient Storage Association of Kansas, Hutchinson, KS, Sep. 25, 2007
- **Advanced Inspector Training on Automatic Tank Gauge Systems**, State of Wisconsin, Wisconsin Dells, WI Sep. 10-11, 2007
- **UST Operator Training: Building for Success Webinar**, EPA Region 6 UST Inspector Conference, Dallas TX, Sep. 5, 2007
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"** Atlanta, GA, for Federal Facilities, Sep. 4-5, 2007,
- **Two-Day UST Inspector Seminar**, Seattle, WA, Jul. 18-19, 2007
- **UST/AST Inspector Refresher**, City of Chicago, Chicago, IL, May 13, 2007
- **"Everything You Wanted to Know About Tanks But Were Afraid to Ask"** for Federal Facilities, New York City, May 2, San Francisco, CA, May 23, 2007
- **UST Service Provider Seminar**, Oregon DEQ, Eugene and Portland Oregon, Feb. 6, 7 and 9, 2007
- **UST Operator Training**, Indian Health Services, Albuquerque, NM, Nov. 2, 2006
- **UST/AST Operator Training**, Seneca Nation of Indians, Salamanca, NY, Aug. 30, 2006
- **UST Operator Short Course**, Prosser, WA, Aug. 16, 2006
- **UST/AST Inspector Training**, City of Chicago, Chicago, IL, May 16-18, 2006
- **Automatic Tank Gauge Training**, Cherokee Nation, Albuquerque, NM, , May 9, 2006
- **UST Inspector Training**, NWETC, Portland, OR, Apr. 20-21, 2006
- **Automatic Tank Gauge Training**, National Tanks Conference and Expo, Memphis, TN, Mar. 19, 2006
- **On-Line UST Operator Training**, National Tanks Conference and Expo, Memphis, TN, Mar. 21, 2006
- **UST Inspector Training**, Albuquerque, NM, Mar. 1, 2006,
- **UST Seminar**, Albuquerque, NM, Feb. 28, 2006
- **Everything You Need to Know About Automatic Tank Gauge Systems**, Seattle, WA, Feb. 2, 2006
- **UST Operator Training**, Indian Health Services, Albuquerque, NM, Jan. 24-25, 2006

- **The 2005 Energy Act and UST Performance Studies**, King County Bar Environmental Group, Seattle, WA, Dec. 18, 2005
- **2nd Annual Conference on Underground Storage Tanks, National Institute for Storage Tank Management**, Orlando, FL, Nov. 9-10, 2005
- **Inspector/Installer Refresher Training**, Montana Department of Environmental Quality, Helena, MT, Oct. 5-6, 2005
- **UST Inspector Training**, Northwest Environmental Training Center, Seattle, WA, Sep. 28-29, 2005
- **Advanced UST Inspector Training for Automatic Tank Gauges**, Inter Tribal Council of Arizona, Kings Beach, CA, Aug. 15-16, 2005
- **What Now? What Next? The Present and Future Status of UST Regulations**, ABS Consulting, On-line webinar, Jul. 25, 2005
- **UST Inspector Training**, US Postal Service, Lynnwood, WA, Jun. 8, 2005
- **Idaho UST Operator Training**, Boise, ID, May 3, 2005
- **Environmental Management Systems and USTs**, US EPA UST/LUST Conference, Seattle, WA, Mar. 1, 2005
- **UST Operator Training Initiatives**, 1st Annual UST Conference and Trade Show, National Institute for Storage Tank Management, Orlando, FL, Dec. 9-10, 2004
- **UST Inspector Training**, New Jersey Depart. of Environmental Protection, Princeton, NJ, Oct. 4-7, 2004
- **Privatizing UST Operator Training? Six Essential Elements of Success**, US EPA UST/LUST Conference, New Orleans, LA, Mar. 1, 2004
- **The Secrets of Highly Effective Inspectors**, EPA UST/LUST Conference, San Francisco, CA, Mar. 12, 2003
- **Significant Operational Compliance**, Steel Tank Institute Annual Meeting, Las Vegas, NV, Feb. 5, 2003
- **Underground Storage Tanks for Alaska Managers and Operators**, Joint Regional Environ. Training Center, Fort Richardson, AK, Dec. 9-11, 2002
- **Underground and Aboveground Storage Tank Inspection**, University of Wisconsin, Madison, WI, Dec. 3-5, 2002
- **UST Third Party Inspector Training**, ADEC, Juneau, AK, Jun. 6, 2002
- **Passing Third Party Inspectors for UST Operators**, ADEC, Juneau, Fairbanks, Wasilla, Anchorage, and Kenai, AK, Apr. 30-May 5, 2002
- **Compliance Inspections for USTs**, Georgia Tech, Atlanta, GA, Feb. 12-14, 2002
- **Tackling UST Operational Compliance**, ASTSWMO, Oct. 22-23, 2001, Washington DC
- **UST Third Party Inspector Training**, ADEC, Anchorage, AK, Jul. 12-13, 2001
- **Operational Compliance: The Full Meal Deal and Privatizing UST Inspections**, UST LUST National Conference, Albuquerque, NM, Mar. 20-21, 2001
- **Passing Third Party Inspectors for UST Operators**, ADEC and Marcel Moreau Associates, Juneau, Fairbanks, Anchorage, and Kenai, AK, Apr. 9-13, 2001
- **Results of Alaska's New UST Inspection Program**, NACE 2001 Northern Area Western Conference, Anchorage, AK, Feb. 28, 2001
- **Privatizing Operational Compliance on USTs**, 3<sup>rd</sup> Annual CalCUPA Forum, Burbank, CA, Feb. 6, 2001
- **UST/AST Conference**, Keynote Speaker, American Petroleum Institute, Austin, TX, Sep. 19, 2000
- **UST Third Party Inspector Training**, ADEC, Anchorage, AK, Jun. 27-28, 2000

- **USTs for Operators**, ADEC, Kenai May 24, 2000, Fairbanks, AK, June 7, 2000
- **The Future of USTs**, EPA UST/LUST Conference, Portland, OR, Mar. 21, 2000
- **UST Inspector Training**, ADEC, Anchorage, AK, Feb. 29- Mar. 3, 2000
- **UST Inspector Training**, ADEC, Anchorage, AK, Nov. 31-Dec. 3, 1999
- **Integrity Assessment**, EPA, National UST/LUST Conference, Daytona Beach, FL, Mar. 17, 1999
- **UST 1998 Deadline**, Alaska Municipal League, Fairbanks, AK, Nov. 9, 1998
- **UST Program Overview**, US Public Health Service, Anchorage, AK, Aug. 27, 1998
- **UST Financial Responsibility**, EPA, Austin, TX, Mar. 24, 1998
- **UST Financial Responsibility and UST Internet Resources**, EPA, UST/LUST Conference, Long Beach, CA, Mar. 20- Apr. 1, 1998
- **Don't Wait 'Til 1998: Replace, Upgrade or Close your UST**, ADEC, Ft. Richardson, AK, May 20, 1997
- **Don't Wait 'Til '98: Replace, Close your UST**, ADEC, Fairbanks, Anchorage, Kenai, Juneau, and Ketchikan, AK, Mar. 17-21, 1997
- **Tanks on the Net: UST Resources on the Web**, EPA UST/LUST Conference, Charlotte, NC, Mar. 10-12, 1997
- **The Environmental Regulations Course**, Executive Enterprises, Anchorage, AK, May 16-17, 1996
- **Environmental Issues**, Birch Horton Bittner, Fairbanks, AK, Oct. 12, 1995

## Web-Based Applications

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- **Tank Savvy Minute**. Created over 40, one-minute videos of specific UST equipment and published and maintain them on [YouTube](#). 2014 - present
- **Pepsi Bottling Company**: Created two online courses for Pepsi: Zero Leaks: Inspecting your UST System, and Zero Spills: Responding to Spills. 2013
- **Montana DEQ**: UST Installer, Closure and Inspection certification exams. Edited and rewrote certification exams. 2013 - 2014
- **KY TOOLS**: Kentucky Tank Operator Online Training System. Developed online training system for the Commonwealth of Kentucky in conjunction with NIC. <http://waste.ky.gov/UST/pages/ot.aspx> 2010
- **USTtraining.com**: State-approved Class A/B and C UST Operator Training exams and courses developed and offered online. [www.USTtraining.com](http://www.USTtraining.com). Started date May 1, 2009
- **US Veterans Administration**: UST/AST video training seminars. Developed, scripted and acted in 7 video training modules on USTs and ASTs. 2007
- **Idaho TankHelper**: Developing computerized compliance assistance tool for the State of Idaho. 2006- 2007. <https://www.accessidaho.org/deg/tankhelper>
- **Montana TankHelper and TankHelper II**: Developed an on-line UST operator class for the State of Montana Department of Environmental Quality. 2005. <http://tankhelper.mt.gov> (Winner of 2006 Best of the Web and Digital Government Achievement Awards for Government to Business category)
- **Petroleum Equipment Institute's Learning Center**: Created on-line training program for UST Operators. 2003 to present
- **Titan Management Group, LLC**: Helped create a searchable on-line regulations database for 23 states for a major oil company. 2003-04

## Training, Workshops and Conferences Attended

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- **2016 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Atlanta, GA, Oct. 19-21, 2016

- **2015 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Las Vegas, NV, Oct. 12-14, 2015
- **2015 National Tanks Conference and Expo**, Phoenix, AZ, Sep. 14-16, 2015
- **New England Tanks Conference**, NISTM, Worcester, MA, Dec. 4, 2014
- **2014 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Las Vegas, NV, Oct. 7-9, 2014
- **2014 National Institute for Storage Tank Management** Conference and Tradeshow, Alexandria, VA, Jun. 17, 2014
- **2013 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Atlanta, Oct. 13-15, 2013
- **2013 National Tanks Conference and Expo**, Denver, CO, Sep. 16-18, 2013
- **2012 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Las Vegas, Oct. 8-10, 2012
- **2012 National Tanks Conference**, St. Louis, MO, Mar. 19-21, 2012
- **2011 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Chicago, IL, Oct. 3-5, 2011
- **2010 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Atlanta, GA, Oct. 5-8, 2010
- **2010 National UST Conference**, Boston, MA, Sep. 20-22, 2010
- **2009 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Las Vegas, NV, Oct. 21-23, 2009
- **National UST/LUST Conference**, Mar. 29-Apr. 1, 2009, Sacramento, CA
- **2008 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Chicago, IL, Oct. 5-7, 2008
- **NEIWCC UST/LUST National Conference and Expo**, 2008, Atlanta, GA, Mar. 16-19, 2008
- **2007 Petroleum Equipment Institute Trade Show** at the NACS Trade show, Atlanta, GA, Nov. 7-9, 2007
- **19<sup>th</sup> Annual Tanks Conference and Exposition**, San Antonio, TX, Mar. 5-7, 2007
- **Petroleum Equipment Institute Convention**, PEI, Las Vegas, Oct. 9-11, 2006
- **18th Annual Tanks Conference & Exposition**, Memphis, TN, Mar. 20-22, 2006
- **2nd Annual Conference on Underground Storage Tanks**, National Institute for Storage Tank Management, Orlando, FL, Nov. 9-10, 2005
- **Petroleum Equipment Institute Convention**, PEI, Las Vegas, Oct. 10-12, 2005
- **UST/LUST Conference**, EPA, Seattle, WA Mar. 1-3, 2005
- **1st Annual UST Conference and Trade Show**, National Institute for Storage Tank Management, Orlando, FL, Dec. 9-10, 2004
- **Petroleum Equipment Institute Convention**, PEI, Las Vegas, Oct. 18-20, 2004
- **UST/LUST Conference**, US EPA New Orleans, LA, Mar. 1, 2004
- **Petroleum Equipment Institute Convention**, PEI, Chicago, Oct. 12-14, 2003
- **Petro-Tite**, Purpora Engineering, Tacoma, WA, May 22, 2003
- **UST/LUST Conference**, US EPA, San Francisco, CA, Mar. 10-12, 2003
- **California CUPA**, Anaheim, CA, Feb. 3-6, 2003
- **Petroleum Equipment Institute Convention**, PEI, Orlando, FL, Oct. 5-8, 2002
- **UST/LUST Conference**, US EPA, Orlando FL, Mar. 11-13, 2002
- **Tackling UST Operational Compliance**, ASTSWMO, Wash. DC, Oct. 22-23, 2001
- **Advanced UST Inspector Training**, US EPA, Portland, OR, Oct. 16-18, 2001
- **UST/LUST Conference**, US EPA, Albuquerque, NM, Mar. 20-22, 2001
- **UST/LUST Conference**, US EPA, Portland OR, Mar. 20-22, 2000
- **Cathodic Protection Tester**: Steel Tank Institute, Anchorage, AK, Feb. 28, 2000
- **Underground and Aboveground Storage Tank Inspections**, University of Wisconsin, Anchorage, AK, Feb. 17-19, 1999
- **Corrosion of USTs**, ASTM, Conshohocken, PA, Dec. 9-10, 1999
- **Cathodic Protection Testing**, Marcel Moreau Assocs., Seattle, WA, Sep. 23-25, 1998
- **UST Inspections**, Petcon, Inc, Seattle, WA, Sep. 21-22, 1998

- **UST/LUST Conference**, US EPA, Long Beach, CA, Mar. 30- Apr. 1, 1998
- **Alaska COMTECH 98**, Juneau, AK, Feb. 6, 1998
- **Developing a Third-Party Inspection Program**, US EPA, Harrisburg, PA, Nov. 5-6, 1997
- **Peer Match: Financial Responsibility**, Arizona DEQ, Phoenix, AZ, Oct. 9-10, 1997
- **UST/LUST Conference**, US EPA, Charlotte, NC, Mar. 10-12, 1997
- **Alaska COMTECH 97**, Juneau, AK, Feb. 8, 1997
- **Alaska COMTECH 96**, Juneau, AK, Feb. 14, 1996
- **Corrosion Control/Cathodic Protection**, Corpro, Lacey WA, Sep. 27-28, 1995
- **Financial Responsibility for USTs**, WA Depart of Ecology, Lacey WA, Jun. 6, 1995
- **A Contractor's Guide to UST Closures**, PETCON, Inc, Juneau, AK, Mar. 14, 1995
- **How to Install Underground Fuel Storage Tanks and Piping**, PETCON, Inc, Juneau, AK, Mar. 13, 1995
- **Advanced UST Enforcement Training**, US EPA, Anchorage AK, Sep. 1, 1994
- **Risk Communication**, US EPA, Fairbanks, AK, Aug. 29-31, 1994
- **Hazardous Materials Refresher**, Risk Management, Fairbanks, AK, Apr. 21, 1994
- **Bioventing: Principles, Applications and Case Studies**, INET, Anchorage, AK, Mar. 10-11, 1994
- **How to Manage Projects, Priorities, and Deadlines**, National Seminars Group, Fairbanks, AK, Jan. 24, 1994
- **Petroleum Hydrocarbon & Organic Chemicals in Ground Water**, API, NGWA, Houston, TX, Nov. 10-12, 1993
- **Hazardous Materials Technician Refresher**, UAF Risk Management, Fairbanks, AK, Jul. 1, 1993
- **In-Service Enforcement Training**, Alaska State Troopers Training Academy, Sitka, AK, Jan. 11-15, 1993
- **Bioremediation Engineering**, General Physics Corp., Tucson, AZ, Nov. 11-13, 1992
- **Principles of Groundwater Hydrology**, National Groundwater Association, Anchorage AK, Apr. 27-29, 1992
- **Groundwater Flow and Well Hydraulics**, U of W-M, San Diego, CA, Apr. 21-24, 1992
- **Risk Assessment Guidance for Superfund**, US EPA, Anchorage, Feb. 11-14, 1992
- **Petroleum Storage System Worker**, ADEC, Anchorage, AK, Nov. 18-21, 1991
- **Treatment Technologies for Superfund**, US EPA, Anchorage, AK, Nov. 12-15, 1991
- **International Arctic Technology Conference**, Society of Petroleum Engineers, Anchorage, AK, May 29-31, 1991
- **Hazardous Waste Health and Safety Refresher**, EPA, Anchorage, AK, Aug. 16, 1990
- **Workshop on Leaking USTs**, ADEC, Anchorage, AK, Jun. 25-27, 1990
- **Oil Spill Prevention and Control**, National Spill Control School, Corpus Christi, TX, May 21-25, 1990
- **Soil and Groundwater Remediation**, ADEC, Fairbanks, AK, May 9-10, 1989
- **Hazardous Materials Incident Response Operations**, EPA, Edison, NJ, Mar. 23-27, 1987

## **Publications: Articles, Manuals, Reports**

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- Implementation of UST Provisions of the EPCRA of 2005 and Status of Pollution Prevention Programs for EPA Region 9, Booz Allen Hamilton, May 2014
- Online Training: Does It Work?
- STI's Tank Talk 28 No. 1, January 2013
- Musings on UST Operator Training, LUSTLine #73, June 2012

- Operator Training Has Left the Station... LUSTLine Bulletin #65, June 2010
- Operation, Maintenance and Management for Three UST Systems, Laguna Development Corp., 2008
- Field Audit for BP-Owned ARCO and Thrifty Branded GROs Located within the State of California and Classified as "Upgrade" for BP West Coast Products, April 2007
- Environmental Compliance System Audit For San Diego County Final Report for BP West Coast Products, July 2006
- Statewide Environmental Compliance System Audit Final Report for BP West Coast Products, July 2006
- Preventative Maintenance for Your Petroleum Equipment, C-Stores Canada Magazine, January 2005
- New Jersey UST Inspector Training Manual, State of New Jersey, October 2004
- Mandatory Training for UST Operators: Observations from the Oregon Front Line, LUSTLine Bulletin #47, June 2004
- I Don't Train, I Enforce!
- Compliance or Enforcement? LUST Line Bulletin #46, March 200
- The Exploding Cell Phone at Gas Stations: Fact or Fiction? LUST Line Bulletin # 45, October 2003
- Oregon Operator Training: How to Successfully Manage your Underground Petroleum Storage Tank System, BTA, 2003-2005
- Plain Talk on Motor Fuel Tanks: an Operator's Guide to Maine's Underground Storage Tank Rules, July 2003
- Plain Talk on Heating Oil Tanks: an Operator's Guide to Maine's Underground Storage Tank Rules, July 2003
- Tomorrow's Tanks: New golden rules are changing the focus of UST systems, STI's Tank Talk, Apr 2003
- Building a Better Internet Presence: 10 things you can do to improve the performance of your UST web site, LUST Line Bulletin #43, March 2003
- Report on the Effectiveness of the Alaska Third Party Inspection Program for UST Systems: Innovations, Incentives and a New Enforcement Paradigm, Jan. 2002
- The Missing Link to Overfill Prevention, LUST Line Bulletin #39, November 2001
- Dispensing Wisdom, LUST Line Bulletin #38, June 2001
- Setting Our Sights on Operational Compliance, LUST Line Bulletin #37, March 2001
- Alaska's Third-Party Inspection Program, LUST Line Bulletin #37, March 2001
- Results of Inspection Program: An Innovative Way to Increase Cathodic Protection Compliance, NACE Northern Area Western Conference, February 2001
- Alaska Tank Explosion Linked to Polyester Coverall, LUST Line Bulletin #36, November 2000
- US EPA's Operating & Maintaining UST Systems, Practical Help and Checklists, 2000
- State of Alaska Third Party Inspector Handbook, State of Alaska, 2000
- Alaska UST Operation and Maintenance Manual, State of Alaska, 1999

## **Site Audits/Inspections**

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- Seattle Hospital, March, 2014
- Fairbanks North Star Borough Compliance Reports, March 2014
- Snohomish PUD UST Inspection and Audit, Everett, WA 2013
- Veterans Administration UST Inspection and Report, Roseburg, OR, 2010
- Montana Air Guard Compliance Guide, 2009
- Veterans Administration UST Inspection and Report, West Palm Beach Florida, 2007
- United States Postal Service UST Inspections and Reports for sites in Missouri, Tennessee, Georgia and Florida, 2007

- Site alarm inspections and audits at over 100 ARCO/BP AM/PM locations in California, 2006-07
- UST Site Audit and Inspection, including final report, Drew Paints, Portland, OR, 2003
- UST Site Audits as field trip class exercises in New Jersey, New York, Nevada, New Mexico, Georgia, 2002-2007
- Developed third party inspection program for the State of Alaska, overseeing 24 inspectors
- Inspected over 70 UST sites while employed by Alaska Department of Environmental Conservation, 1989-2002

### **Expert Witness/Consultant** \_\_\_\_\_

- O'Day Mgt, Inc. v. Marketing Specialties Inc.
- Dennis v. EDA-T, Inc., et al.
- *DJ Nelson, Trustee, for DJ Nelson Trust DBA Fruitridge Vista Water Company v. Atlantic Richfield Company, et al.* Superior Court for the State of California, County of Sacramento, Case # 02AS00535.
- *Waters v. Empire Steel, State of Montana*

### **References** \_\_\_\_\_

Available upon request