

The 10th annual ESC courses

March 8 – 12, 2010

The Glenmore Inn and Convention Centre

Register now! 403-268-3800

Construction and Beyond: Sustainable practices for runoff management

Now including low-impact development and stormwater courses



Presented by The City of Calgary and
Alberta Low Impact Development Partnership

Free EXPO
March 9, 2010



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THE CITY OF
CALGARY



Construction and beyond: Sustainable practices for runoff management

Stormwater quality and quantity concerns start even before breaking ground. Controlling runoff for the long-term health of our watershed is ongoing. While erosion and sediment controls on construction sites continue to evolve in order to improve stormwater quality, managing stormwater does not end the day the construction project is completed.

On the 10th anniversary of our annual courses, The City of Calgary is proud to expand the focus of our training by partnering with the Alberta Low Impact Development Partnership (ALIDP). Join us for an exciting week of courses on environmental construction and land development practices and long-term sustainability of our water resources.

For more details, visit us online at calgary.ca/waterservices/esc.

Feature presenters

John McCullah, B.Sc., CPESC: John received a B.Sc. degree in Watershed Management from Humboldt State University. He is a licensed landscape contractor, the author of Erosion Draw 5.0 and Bio Draw 3.0 and produced a series of training videos (Dirt Time), which are widely used in the industry. John is the president of Salix Applied Earthcare, a natural resource consulting firm in California and the founder, director and a project manager of the Sacramento Watersheds Action Group, a non-profit watershed restoration organization.

Gary Minton, Ph.D., P.E.: Dr. Minton began his professional career in stormwater treatment in 1985 and has taught short courses since 1995. He became an independent consultant in 1982 and is a member of the editorial board of the magazine Stormwater, to which he has contributed many technical articles. Gary received the 2007 Outstanding Contribution Award of the Washington Chapter of the American Water Resources Association. Find out more about Gary, his book and his courses at stormwaterbook.com.

Jennifer Hildebrand, CPESC, CPSWQ, CESSWI: Jennifer has been involved in the construction industry for over 17 years. She has a master's degree in business and works as an environmental compliance director for the commercial construction firm, Weis Builders. Throughout her career Jennifer has represented private and public clients in the stormwater industry throughout the United States and Canada. She has made it her goal to educate and inform individuals regarding compliance program principles and proper installation techniques.

The City of Calgary presenters

Bert van Duin, M.Sc., P.Eng.: Bert received his civil engineering degrees from Delft University of Technology in The Netherlands. He has over 21 years of experience in the analysis, planning and design of urban drainage, stormwater and watershed management projects. Bert is one of the founding members of the ALIDP, where he now serves as secretary on the board of directors.

Graham Tait, B.Sc., CPESC, CPSWQ: Graham has a degree in soil science and environmental chemistry and over 14 years experience in erosion and sediment control and land reclamation. He has been the erosion control co-ordinator at The City of Calgary for six years.

Liliana Bozic, M.Sc., P.Eng.: Liliana is a Watershed engineer with The City of Calgary. For a number of years, she has led sustainable stormwater management initiatives. Liliana is one of the founding members of the ALIDP, on which she serves as vice-president on the board of directors.

Bobby Chong, C.E.T.: Bobby has an engineering technology diploma from the Southern Alberta Institute of Technology (SAIT) and works as an erosion control technician for The City of Calgary.

Amber Brown, B.Sc., P.Ag.: Amber has an environmental science degree from the University of Lethbridge and has worked at The City of Calgary for over seven years.

Katherine Mitchell: Katherine has an environmental science diploma from Lakeland Community College and has over 13 years environmental experience.

Product EXPO

Date: Tuesday, March 9
Time: 8:00 a.m. – 4:30 p.m.
Cost: free

The City and ALIDP are proud to host an expo showcasing the latest and greatest in erosion and sediment control and stormwater products and services. This excellent networking opportunity includes suppliers, manufacturers and more.



Courses

REVISED ESC1-INT: A Fun Introduction to Erosion and Sediment Control for Urban Construction Sites (Barcodes: 261031 and 261040)

Presenter: Katherine Mitchell and Amber Brown
Skill level: Beginner/Refresher **Dates:** March 8 or March 9
Time: 8:00 a.m. – noon **Cost:** \$135 (includes GST)
Have you ever wondered what the big deal is, why sediment is bad? This half-day introduction provides basic knowledge of the principles of erosion and sediment control. Through hands-on experiments, we show you how to make a positive difference, not just to your pocketbook, but to the environment as well.

REVISED ESC15-WMT: Construction Site Water Woes (Barcode: 261029)

Presenter: Bobby Chong
Skill level: Beginner **Date:** March 8
Time: 1:00 – 4:30 p.m. **Cost:** \$135 (includes GST)
Unwanted water can slow down your construction project. Find out how to properly manage surface water before and after it rains, as well as pesky groundwater. Permits getting you down? Water on site contaminated? Email questions you want answered to bobby.chong@calgary.ca by Feb. 1 for in-class answers and discussion. Also, guest speakers will present new technology for water treatment regarding short-term and emergency dewatering activities.

ESC16-CPE: CPESC Review Course (Barcode: 261039)

Presenter: Jennifer Hildebrand
Skill level: Intermediate – Advanced **Date:** March 11
Time: 8:00 a.m. – 4:30 p.m.
Cost: \$325 (includes GST and exam review book)
Are you interested in becoming a certified professional in erosion and sediment control? Whether you're sure or trying to decide, this course offers an insider look into the field. The course helps exam candidates prepare for the CPESC examination, although anyone may attend. Calculator required. Course fee includes CPESC exam review book. For more information, please visit cpesc.org.

BACK BY POPULAR DEMAND

ESC21-BMP: Putting the BEST Back Into Your BMPs (Barcode: 261033)

Presenter: John McCullah
Skill level: Beginner – Intermediate **Date:** March 8
Time: 8:00 a.m. – 4:30 p.m. **Cost:** \$260 (includes GST)
What is the difference between best management practices (BMPs) and bad management practices? This course provides a chance to become familiar with new and innovative BMPs. How are Hydromulch blends different? Why is compost highly recommended? What's a skimmer basin? How can sediment ponds be made even more effective? This course shows that proper applications, installation and maintenance, in addition to common sense, are all necessary components to put the BEST back into your BMPs.

NEW! ESC26-QAQ: Quality Control – Get What You Paid For! (Barcode: 261032)

Presenter: John McCullah
Skill level: Beginner – Intermediate **Date:** March 9
Time: 8:00 a.m. – 4:30 p.m. **Cost:** \$260 (includes GST)
Quality control is a huge component of effective erosion and sediment controls. Ensuring proper selection and installation of ESC products promotes cost savings and compliance. This course covers specifications from start to finish including design, installation, inspection and maintenance. Know what you're purchasing and learn how to make sure you get what you paid for.

NEW! ESC27-BRC: Building a Road To Compliance (Barcode: 261035)

Presented by: Jennifer Hildebrand
Skill level: Intermediate **Date:** March 10
Time: 8:00 a.m. – noon **Cost:** \$135 (includes GST)
Having an effective ESC and stormwater compliance program will save your company money and give you a competitive edge. Achieving stormwater compliance is more complex than it looks but this course is full of examples to get you started on the road to compliance.

NEW! ESC28-IRC: Inspecting for Compliance (Barcode: 261036)

Presenter: Jennifer Hildebrand
Skill level: Intermediate **Date:** March 10
Time: 1:00 – 4:30 p.m. **Cost:** \$135 (includes GST)
The paperwork's in place, but how do you implement the erosion and sediment controls in the field? This course covers the fundamentals of the inspection process to ensure due diligence. Know what to look for when you inspect. Get tips from someone who has spent years out in the field and enough dirt under her fingernails to know exactly what's required.

NEW! ESC29-RAD: Taking the Mystery Out of ESC Reports and Drawings (Barcodes: 261037 and 261041)

Presenter: Graham Tait
Skill level: All **Date:** March 11
Time: 8:00 a.m. – noon or 1:00 – 4:30 p.m.
Cost: \$135 (includes GST)
The 2010 City of Calgary ESC Guidelines are due to arrive. This includes updated BMPs, new report and drawing templates and clarification on small site requirements. Understand your roles and responsibilities and how we all work together for success. Avoid delays and learn how to get your ESC report and drawings approved on the first submission.



EXM1-CPE: CPESC EXAM: Application Deadline Advised by CPESC is Jan. 25, 2010 (Barcode: 261042)

Presenter: Jennifer Hildebrand
Date: March 12

Time: 7:30 a.m. – 12:30 p.m. **Cost:** \$50 (includes GST)

You must have approval from the CPESC administrative office to write this exam. Approval is gained through the CPESC application process. Information and required forms are available at cpesc.org. Approved calculator required. Note: seating cost for the exam is separate from the CPESC application fee.

NEW! LID1-ABC: The ABCs of LID (Barcode: 261030)

Presenters: Bert van Duin and Liliana Bozic

Skill level: All **Date:** March 9

Time: 1:00 – 4:30 p.m. **Cost:** \$135 (includes GST)

An increasing number of municipalities and water management plans call for the implementation of low-impact development (LID). But what is LID, and how should these sustainable systems be designed, constructed and maintained? This course provides an overview of this ecosystem-based approach in which stormwater is the central focus. Review the various techniques to manage runoff and find out how to implement better site design practices, green roofs, absorbent landscaping, rain gardens, bioswales and rainwater harvesting.

NEW! LID2-SWT: Stormwater Treatment (Barcode: 261034)

Presenter: Gary Minton

Skill level: Intermediate **Date:** March 10 and 11

Time: 8:00 a.m. – 4:30 p.m. **Cost:** \$575 (includes GST)

Ever wondered how design and maintenance is related to our stormwater treatment system? This two-day course is for professionals interested in obtaining a detailed understanding. The focus is on best management practice (BMP) selection and design based on the intended removal of sediments, nutrients, oil/grease and bacteria, with special emphasis on our cold climate.

If you wish to know more about Gary's Stormwater Treatment book, go to stormwaterbook.com. If you want to purchase the book at a greatly reduced rate while attending the short course, email Gary at rpathebook@cs.com and he'll send you a special purchase form. Or if you do not plan to attend, you can purchase the book at the regular price on his website.

NEW! WM1-SWS: Stormwater Submissions Made Easy! (Barcode: 261038)

Presenter: Bert van Duin

Skill level: All **Date:** March 12

Time: 1:30 – 4:30 p.m. **Cost:** \$135 (includes GST)

Getting discouraged by the number of iterations and revisions of your stormwater management submissions? If so, this is the course to help you. Learn how to get your stormwater management report approved the first time around.

Course information

For further information, contact Katherine Mitchell at 403-268-4966 or katherine.mitchell@calgary.ca or visit calgary.ca/waterservices/esc.

Registration

Note: please provide The City of Calgary Recreation barcode number in all registration communication.

Phone-in registration: 403-268-3800
(Visa, MasterCard or American Express)

TTY (deaf, hard of hearing and speech impaired):
403-268-3825

Walk-in registration: for information call 403-268-3800

Fax-in registration: 403-268-5202
(Visa, MasterCard or American Express)

Mail in registration with credit card or cheque:

The City of Calgary Recreation
Customer Service Centre
Box 2100, Station M, #68
Calgary, AB T2P 2M5

Note: a \$25 administration fee is charged on all NSF cheques.

For The City of Calgary employees: complete an X-35 training form and forward the approved form along with your registration form to The City of Calgary Recreation, mail code #68. Please ensure the appropriate accounting information and approved signature are on your form.

Payment is due at time of registration: if payment is not received at time of registration, you will not be registered for the course(s). The City of Calgary follows standard industry practice in listing all our prices inclusive of goods and services tax (GST). The five per cent GST amount is visible to customers on all receipts issued.

Refund policy: a refund on all courses is available until Feb. 1, 2010 (minus a \$20 administration fee). No refunds will be issued after this date, but you may substitute another person in your place at no extra charge.

Accreditation: these courses count towards your professional development hours for organizations such as IECA, EnviroCert International and APEGGA.

Lunch: lunch is provided with all full-day course registrations. Let us know at the time of registration if a vegetarian dish is required, or if you have any food allergies.

2010 Course Calendar

MONDAY March 8	TUESDAY March 9	WEDNESDAY March 10	THURSDAY March 11	FRIDAY March 12
Brown/Mitchell ESC1-INT 8:00 a.m. – noon (1/2 day) Heritage 1 and 2	Brown/Mitchell ESC1-INT 8:00 a.m. – noon (1/2 day) Glenmore Centre	Minton LID2-SWT 8:00 a.m. – 4:30 p.m. (Day 1 of 2) Macleod 1 and 2 Lunch included	Hildebrand ESC16-CPE 8:00 a.m. – 4:30 p.m. (1 day) Foothills Lunch included	Hildebrand CPESC EXAM 7:30 a.m. – 12:30 p.m. (1/2 day) Foothills
Chong ESC15-WMT 1:00 – 4:30 p.m. (1/2 day) Heritage 1 and 2	Bozic/van Duin LID1-ABC 1:00 – 4:30 p.m. (1/2 day) Glenmore Centre		Minton LID2-SWT 8:00 a.m. – 4:30 p.m. (Day 2 of 2) Glenmore Centre Lunch included	van Duin SWM1-SWS 1:30 – 4:30 p.m. (1/2 day) Foothills
	Product EXPO 8:00 a.m. – 4:30 p.m. (1 day) Glenmore East			
McCullah ESC21-BMP 8:00 a.m. – 4:30 p.m. (1 day) Glenmore West Lunch included	McCullah ESC26-QAQ 8:00 a.m. – 4:30 p.m. (1 day) Glenmore West Lunch included	Hildebrand ESC27-BRC 8:00 a.m. – noon (1/2 day) Heritage 1 and 2	Tait ESC29-RAD 8:00 a.m. – noon (1/2 day) Glenmore West	
		Hildebrand ESC28-IRC 1:00 – 4:30 p.m. (1/2 day) Heritage 1 and 2	Tait ESC29-RAD 1:00 – 4:30 p.m. (1/2 day) Glenmore West	

Note: please arrive 30 minutes prior to start time to sign in and collect course materials.

Location: The Glenmore Inn & Convention Centre
 2720 Glenmore Tr. S.E., Calgary, AB T2C 2E6
 403-279-8611

