



Altitude Training Associates

Stormwater Management,
Environmental & Safety Training

2012 Class Schedule

www.altitudeta.com

Scott Olson, Instructor
Tom Gore, Instructor

Altitude Training Associates

<i>Class Date(s)</i>	<i>Course</i>	<i>Sponsor & Registration Info</i>
January 12 & 13, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
January 19 & 20, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
February 2, 2012	Maintenance Practices For Permanent Stormwater BMPs	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
February 9 & 10, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
February 21, 2012	Storm Water Management During Construction – Introductory Course	Montana Contractors Association Billings, MT (406) 442-4162
February 22, 2012	CDOT Erosion Control Supervisor Certification	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611
March 8 & 9, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
March 13 & 14, 2012	Storm Water Pollution Prevention Plan (SWPPP) Administrator Certification	Montana Contractors Association Missoula, MT www.mtagc.org (406) 442-4162
March 13, 2012	CDOT Erosion Control Supervisor Certification	Keep It Clean Partnership (KICP) Boulder, CO www.keepitcleanpartnership.org (303) 441-1439
March 15 & 16, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
March 22, 2012	Construction Dewatering ½-day, AM BMPs for Working In Waterways ½-day, PM	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611

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<i>Class Date(s)</i>	<i>Course</i>	<i>Sponsor & Registration Information</i>
April 5 & 6, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
April 10 & 11, 2012	Storm Water Pollution Prevention Plan (SWPPP) Administrator Certification	Montana Contractors Association Kalispell, Mt (406) 442-4162
April 12, 2012	Developing & Implementing Stormwater Management Plans (SWMPs)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
April 13, 2012	CDOT Erosion Control Supervisor Certification	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611
April 19 & 20, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
April 25, 2012	CDOT Erosion Control Supervisor Certification	Colorado Contractors Association (CCA) Steamboat, CO www.coloradocontractors.org (303) 290-6611
April 26, 2012	Construction Dewatering ½-day, AM BMPs for Working In Waterways ½-day, PM	Colorado Contractors Association (CCA) Steamboat, CO www.coloradocontractors.org (303) 290-6611
May 1, 2012	CDOT Erosion Control Supervisor Certification	5-2-1 Drainage Authority Grand Junction, CO (970) 263-8201 521drainageauthority.org/Training.html
May 2, 2012	Developing & Implementing Stormwater Management Plans (SWMPs)	5-2-1 Drainage Authority Grand Junction, CO (970) 263-8201 521drainageauthority.org/Training.html
May 3 rd & 4 th , 2012	Conducting Stormwater Compliance Inspections (Colorado)	5-2-1 Drainage Authority Grand Junction, CO (970) 263-8201 521drainageauthority.org/Training.html
May 10 & 11, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394

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<i>Class Date(s)</i>	<i>Course</i>	<i>Sponsor & Registration Information</i>
May 17, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
May 24, 2012	Construction Dewatering ½-day, AM BMPs for In Waterways ½-day, PM	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
May 31, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
June 7 & 8, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
June 14, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
Saturday June 16, 2012	CDOT Erosion Control Supervisor Certification	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611
June 28, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
July 12 & 13, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
July 17, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
July 19, 2012	Maintenance Practices For Permanent Stormwater BMPs	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
July 26 & 27, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
July 31, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm

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<i>Class Date(s)</i>	<i>Course</i>	<i>Sponsor & Registration Information</i>
August 9 & 10, 2012	CDOT Erosion Control Supervisor Certification	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
August 16, 2012	CDOT BMP Field Academy Denver, CO	Altitude Training Associates Register on-line@: www.altitudeta.com/BMPAcademy.htm
August 23 & 24, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
August 30, 2012	CDOT Erosion Control Supervisor Certification	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611
September 6 & 7, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is Full-Day @CDOT BMP Field Academy)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
September 20, 2012	Construction Dewatering ½-day, AM BMPs for Working In Waterways - ½-day, PM	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
October 11 & 12, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is Full-Day @CDOT BMP Field Academy)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
October 16, 2012	Developing & Implementing Stormwater Management Plans	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
October 25 & 26, 2012	Conducting Stormwater Compliance Inspections (Colorado)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
November 8 & 9, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394
Saturday November 17, 2012	TBD , either CDOT ECS Certification or BMPs for In Waterways	Colorado Contractors Association (CCA) Denver, CO www.coloradocontractors.org (303) 290-6611

Altitude Training Associates

<i>Class Date(s)</i>	<i>Course</i>	<i>Sponsor & Registration Information</i>
December 6 & 7, 2012	CDOT Erosion Control Supervisor Certification (2 nd Day is ½-Day Field Trip)	Red Rocks Community College Lakewood, CO www.rmecosha.com (800) 933-8394

NOTE: For courses with certifications, it is required that training participants successfully complete the course to receive the certification. Successful completion includes passing the certification test and attendance. Training participants cannot miss more than 10% of any training day. For other courses that offer a Certificate of Completion; training participants cannot miss more than 10% of any training day to successfully complete the course.

COURSE DESCRIPTION – One Day Course for ECS Certification

This one day course is the certification course for the Colorado Department of Transportation (CDOT) Erosion Control Supervisor (ECS). This program has been developed for the Erosion Control Supervisor responsible for the proper installation, maintenance and inspection of Best Management Practices (BMPs) for the control of erosion and sedimentation at construction sites.

NOTE: Some sponsors offer a day and a second half day being a ½-day field trip to construction sites or full-day at The CDOT BMP Field Academy in Denver.

The program covers:

- The Stormwater Program legal requirements including permitting and Stormwater Management Plans (SWMP).
- Erosion and Sedimentation at construction sites.
- Types of Best Management Practices (BMPs) for specific situations to control erosion and sedimentation.
- Installing construction site BMPs.
- Inspecting and maintaining construction site BMPs.

PREREQUISITE

There is no prerequisite for this class. This course is an entry-level course and is the first class in a series (see the other programs in this curriculum guide).

LEARNING OBJECTIVES

Upon completion of this class, you will be able to:

- List the permit requirements under the stormwater program.
- Describe the impacts to water quality caused by erosion and sedimentation.
- Describe the installation and maintenance requirements for BMPs used during construction.
- Describe the CDOT water quality program requirements.
- List the duties of the Erosion Control Supervisor.
- Pass a 25 question certification examination with a score of 72% or better.

INSTRUCTORS

Scott Olson, Altitude Training Associates
Tom Gore, Altitude Training Associates

CDOT Erosion Control Supervisor

TOPICAL OUTLINE

Note: 10 minute breaks will be hourly. All times are approximate.

<i>Module</i>	<i>Time</i>	<i>Topic</i>
Module 1 – Introduction Regulatory Requirements	1.5 Hours	Participant and Course Introduction Learning Objectives Regulatory Program & Permit Requirements Stormwater Management Plans (SWMP)
Module 2 – The Erosion Process	.5 Hour	The Erosion Process & Objectives for Erosion Control
Module 3 – Best Management Practices for Erosion Control	1.5 Hour	Types of BMP's for <u>Erosion</u> Control including Planning, Scheduling, Phasing Administrative BMPs, Grading Techniques, and Vegetative Cover, Rolled Erosion Control Products
LUNCH	One Hour	
Module 3 – continued Best Management Practices for Erosion Control	.5 Hour	Diversions, Slope Drains Outlet Protection, Check Dams Site Controls: Vehicle Tracking Control,
Module 4 – Introduction Best Management Practices for Sediment Removal	One Hour	Types of BMPs for <u>Sediment</u> Removal Silt Fence, Straw Bales & Wattles Inlet Protection
Module 4 – continued Best Management Practices for Sediment Removal	One Hour	Sediment Traps, Sediment Basins and Permanent Ponds
Module 5 – Materials Handling	.5 hour	BMPs for Materials Handling and Waste Management
Module 6 – CDOT Water Quality Programs	One Hour	Description of the CDOT Erosion and Water Quality Specifications. Focus on the duties of the Erosion Control Supervisor (ECS) ECS Certification Exam and wrap up of the program

COURSE DESCRIPTION – One Day Course on Developing SWMPs

The development and implementation of Stormwater Management Plans (SWMP) requires a carefully planned approach accompanied by close follow up. This one day training program is designed to provide information about how to prepare and implement these plans to help comply with the requirements of the CDPS permit as issued by the Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Division (WQCD). This program is designed and intended to provide supporting training and information for the Erosion Control Supervisor.

PREREQUISITE

There is no formal prerequisite for this class. However, it is strongly recommended you have knowledge of the construction stormwater permit and best management practices to control erosion and sedimentation during construction activities. This class is a follow up class to the ECS Certification class and is the second class in a series.

LEARNING OBJECTIVES

Upon completion of this class, students will be able to:

- Describe the contents of a SWMP.
- Select Best Management Practices (BMPs) for the control of Erosion and Sedimentation.
- Describe the requirements for amendments to the SWMP.
- Describe the procedures for development, revision and implementation of the SWMP.
- Describe procedures for conducting routine inspections of BMP's.
- Complete an inspection record.

INSTRUCTORS

Scott Olson, Altitude Training Associates
Tom Gore, Altitude Training Associates

Developing and Implementing Stormwater Management Plans

TOPICAL OUTLINE

Note: 10 minute breaks will be hourly. All times are approximate.

Module	Time	Topic
Module 1 SWMP	1Hour	Participant and Course Introduction Learning Objectives Introduction to SWMPs
Module 2 SWMP	1 Hour	Formatting and contents of a SWMP
Module 3 SWMP	1.5 Hour	Procedures for Developing and implementing a SWMP
LUNCH	One Hour	
Module 3 con't SWMP	1 Hour	Procedures for Developing and implementing a SWMP
Module 5 Inspections	2 hours	Requirements for conducting stormwater inspections.
Module 6 Selecting BMPs	1 Hour	Selecting Best Management Practices for Erosion and Sediment Control

Conducting Stormwater Compliance Inspections

COURSE DESCRIPTION – Two Day Course on Conducting Stormwater Compliance Inspections.

This 2-day training course has been developed for **compliance** inspectors of Best Management Practices (BMPs) used to control erosion and sedimentation during construction. Please note: this class is for compliance inspectors and does not cover how to complete a routine inspection as a requirement of the permit. The course covers; preparing for and conducting a comprehensive inspection of a CDPHE *Stormwater Discharges Associated with Construction Activity* permitted site. Specific features of this course will address topics to prepare inspectors for consistent inspection procedures and includes a half day field trip. The course is team taught with one instructor from Altitude Training Associates and one instructor from the Colorado Department of Public Health & Environment (CDPHE).

PREREQUISITE

Successful completion of the ECS Certification class or a detailed knowledge of best management practices to control erosion and sedimentation during construction activities is required. This program is the third course in the series and is an advanced program.

LEARNING OBJECTIVES

Upon completion of this course, students will be able to:

- Describe the Permit Conditions
- Describe Procedures for Conducting On-Site Inspections for Permit Compliance.
- List the 5 elements of a finding of noncompliance.
- Describe the Record Keeping Requirements for Permitted Sites
- Examine Appropriate Applications, Installations and Maintenance of Construction BMPs.
- Generate a Report to Document Findings.

INSTRUCTORS

Scott Olson, Altitude Training Associates
Tom Gore, Altitude Training Associates
Matt Czahor, Colorado Department of Public Health & Environment

Conducting Stormwater Compliance Inspections

TOPICAL OUTLINE DAY 1

Note: 10 minute breaks will be hourly. All times are approximate.

Module	Time	Topic
Module 1 Introduction	1.5 Hours	Participant and Course Introduction Learning Objectives Regulatory Review
Module 2 The SWMP	1 Hour	Evaluating a SWMP for Compliance
Module 3 Compliance Inspections	1Hour	The Inspection Process
LUNCH	One Hour	
Module 4 Best Management Practices	3 Hours	Evaluating Best Management Practices for Permit Compliance

TOPICAL OUTLINE DAY 2

Note: 10 minute breaks will be hourly. All times are approximate.

Module	Time	Topic
FIELD TRIP	3-4 Hours	1-2 Constructions Sites are visited to evaluate the sites for permit compliance
LUNCH	One Hour	
De-briefing of Field Trip	1-2 Hours	A discussion of the findings from the field trip will be discussed as a group
Conclusion	.5 Hour	How to prepare the report of the compliance inspection

COURSE DESCRIPTION – Half Day Course on Construction Dewatering

This ½-day training course has been developed by Altitude Training Associates in conjunction with the Colorado Department of Public Health and Environment-Water Quality Control Division (CDPHE-WQCD) as guidance for personnel that may be involved in construction dewatering operations. These dewatering operations include the methods and practices implemented to remove groundwater accumulations from excavations and managing discharges so they will not have a negative impact on water quality. The focus of the course is on how to engage in these activities, and complete the required record-keeping, in a manner that is compliant with the CDPHE-WQCD Colorado Discharge Permitting System (CDPS) *General Permit for Construction Dewatering Activities* permitting conditions.

LEARNING OBJECTIVES

Upon completion of this course, participants should be able to:

- List what activities require a CDPS *General Permit For Construction Dewatering Activities*
- List the Permitting requirements
- Describe the procedures for filing for Permit coverage
- Compare and contrast the differences between a permitted discharge and a non-permitted land application
- Detail the fundamentals of an adequate plan for conducting dewatering
- List a variety of compliant dewatering and treatment methods
- Implement inspection procedures for monitoring dewatering operation effectiveness and compliance
- Describe the procedures for taking samples of discharges
- Complete the Discharge Monitoring Report (DMR) form

PREREQUISITES

There are no prerequisites for this course.

INSTRUCTORS

Tom Gore, Altitude Training Associates
Nicole Rolfe, Colorado Department of Public Health & Environment

Construction Dewatering

TOPICAL OUTLINE

Note: 10 minute breaks will be hourly

<i>Module</i>	<i>Time</i>	<i>Topic</i>
Module 1 - Introduction - Regulatory Requirements	1½ Hours	Participant and Course Introduction Learning Objectives Regulatory Program and Permit Requirements
Module 2 Dewatering Methods for Land Applications	½ Hour	Procedures for Avoiding Off-site Discharges During Dewatering
Module 3 Dewatering Methods for Off-site Discharges	¾ Hour	Best Management Practices for Permit Compliance - Review of Various Pumping and Treatment Methods
Module 4 - Dewatering Management Plans - Operations Monitoring - Sampling and Report Preparation	¾ Hour	Developing a Plan to Direct Operations and Procedures. Inspecting the Dewatering Operation and Activities. Taking Samples and Filling out the <i>Discharge Monitoring Report</i> for Submittal

Scott Olson

Mr. Olson has 21 years training experience including eight in higher education and presently delivers over 100 programs annually. He is the former Chair of the Environmental & Safety Technology Department at Red Rocks Community College (RRCC) and former Director of the Colorado Environmental Training Center. Mr. Olson instructed in the Environmental Compliance degree program for eight years and developed the state accredited curriculum. He presently is owner of Altitude Training Associates and adjunct faculty at RRCC, San Juan College, and Laramie County Community College. His instructional abilities have helped the OSHA Training Institute and Environmental Training Center become one of the best training sites in the country. Mr. Olson is the author of *International Environmental Standards Handbook*; a 350 page reference book published in 1999 and has traveled internationally presenting environmental programs. He is a member of the National Environmental Training Association, International Erosion Control Association and American Society for Training and Development. His students have selected him for Who's Who Among America's Teachers in 1996, 1998, and 2000 and he is listed in NETA's Who's Who Among Environmental Instructors. He is a Certified Erosion Control Supervisor (ECS) with the Colorado Department of Transportation.

In 1992, Mr. Olson developed the award winning *Stormwater Management During Construction, Field Based Technology* program in partnership with the Colorado Department of Transportation (CDOT), Urban Drainage and Flood Control District (UDFCD), and Colorado Department of Public Health and Environment (CDPHE). The target audience for the day and a half workshops is installers of Best Management Practices (BMP) to control erosion and sedimentation at construction sites. The class has been developed into the Erosion Control Supervisor (ECS) Certification program for which over 500 people are certified annually. Mr. Olson has also developed certification programs for the Keep It Clean Partnership (Boulder, CO) and the state of Utah. He continues to travel the western states delivering safety and stormwater management training courses.

Tom Gore

Tom Gore has been active in the environmental and safety industries for the past thirteen years. His professional work experience spans; Superfund sites, emergency response, delivering training programs, permitting compliance and construction management. His specialized training in the field includes: Hazardous Waste Operations, Toxicology, Environmental Law, Stormwater Management, Occupational Safety and Health Act (OSHA) 501, and Environmental Management Systems. Mr. Gore has over 13-years hands-on training experience. His environmental/health and safety background includes developing and delivering training programs, developing Stormwater Management Plans, conducting site audits and inspections, providing direction in the selection and installation of Best Management Practice features and supplying permit compliance assistance. In 2011 he authored *The WYDOT Storm Water BMP Field Guide*, and the *Montana DEQ Storm Water Management During Construction Field Guide for BMPs*. He also provided all of the BMP photography for the two Field Guides.

Currently he is an authorized OSHA 501 trainer and was previously employed by Aurora Water for over four years, serving as the Compliance Inspections Supervisor. Mr. Gore has been with Altitude Training since 2003 and is currently a full-time environmental/health/safety consultant and instructor and is also adjunct faculty at The Rocky Mountain Education Center @Red Rocks Community College in Lakewood, CO.