

E&SC Training & Certification

Chapter

E&SC training involves educating, training and certifying individuals involved with managing stormwater, erosion and sediment on NCDOT construction projects. The training and certification program required by NCDOT is the E&SC / Stormwater Certification Program (E&SC/SW) which is a partnership program between NC State University and NCDOT and is the primary program. The Certified Professional in Erosion and Sediment Control (CPESC) program administered by EnviroCert International, Inc. is also an NCDOT-recognized certification program for managing stormwater, erosion and sediment for construction and maintenance activities.

■ **E&SC / Stormwater Certification Program (E&SC/SW)**

NCDOT, in conjunction with NC State University, developed the NCDOT E&SC / Stormwater (E&SC/SW) Certification Program to raise the level of environmental awareness for managing stormwater on construction and maintenance sites. Levels I, II and III certifications are offered as part of this program to assist those individuals involved in the development, design, site management, installation and inspection of E&SC plans.

■ **Levels I, II and III Certification**

Levels I, II and III certification courses are offered through NC State University to meet NCDOT requirements for trained and qualified individuals to develop, design, implement or inspect the E&SC plan for all projects disturbing one or more acres of land. The program provides comprehensive training to inspectors, project managers, contractors and designers. Course topics focus on maintaining compliance with E&SC/stormwater regulations on NCDOT construction projects. These certifications are valid for three years; recertification is required.

The NC State University Soil Science Department administers and manages the Level I and II Certifications. The NC State Biological and Agricultural Engineering Department manages the Level III Certification. For specific agenda, fees and schedules regarding these courses, refer to the following websites for each level of certification.

For Level I and II Certification

<http://www.cvent.com/events/level-i-and-ii-erosion-sediment-control-stormwater-certification-for-ncdot-projects/event-summary-2a3ac3872e974d739c05122a282673ef.aspx>

For Level III Certification

http://www.bae.ncsu.edu/workshops/dot/level_iii.html

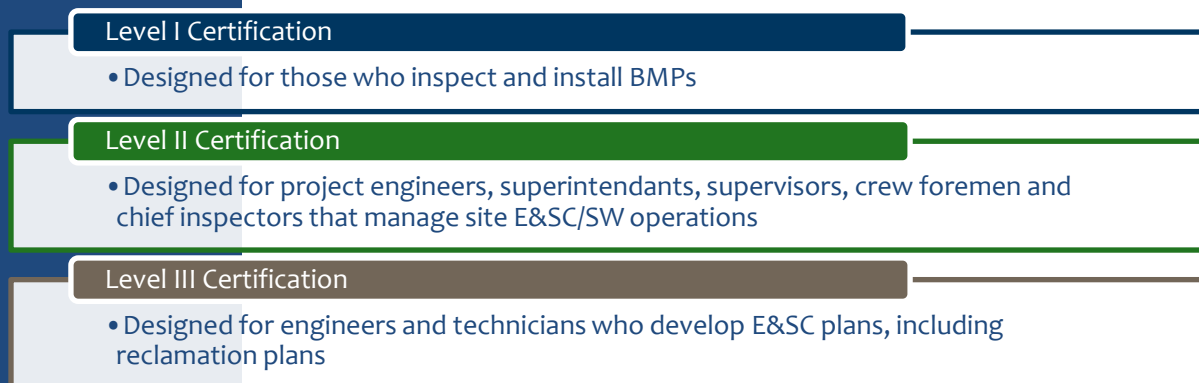


Figure 5.1 Descriptions of Level I, II and III Certifications

Level I Certification

The Level I Certification course is designed for NCDOT, contractors and Construction, Engineering and Inspection (CEI) personnel who install or inspect E&SC on construction sites. The course outlines the BMPs used by NCDOT to minimize and control erosion and sedimentation. The function and installation of the BMPs are emphasized in this course, as well as the basics of soil erosion, vegetation establishment, stream restoration and borrow pit dewatering. Additional topics include E&SC plan implementation, regulatory agency requirements and consequences of permit violations.

Level II Certification

The Level II Certification course is designed for NCDOT, contractors and CEI personnel, who supervise, install or direct grading work, culvert replacement work and bridge construction work over rivers and streams. The course emphasizes permit requirements, roles and responsibilities, applicable specifications and BMPs to control erosion and prevent sedimentation. The course also includes soil erodibility, vegetative establishment techniques, grading techniques to minimize erosion, timing of installations, reclamation plans and proper installation of BMPs. Implementation of the E&SC plan, regulatory agency requirements and consequences of permit violations are also covered in the Level II course.

Level III Certification

The Level III Certification course is designed for engineers and technicians who develop the E&SC plans on NCDOT projects, including reclamation plans. The course focuses on selection of BMPs to meet regulatory requirements for NCDOT. The course addresses hydrology, erosion, regulations, channels, sediment and turbidity control and lateral effects of borrow pits on adjacent wetlands.

NCDOT E&SC plans must contain the name of the plan designer and the Level III certificate number on the title sheet of the plans.

Reference
 Chapter 3.

As indicated in Chapter 3, NCDOT E&SC plans must contain the name of the plan designer and the Level III certificate number on the title sheet of the plans.

■ EnviroCert International, Inc. Certification Programs

EnviroCert International, Inc. is a nonprofit corporation that offers a certification that relates to managing erosion and sediment control for construction and maintenance activities: the CPESC. Although reciprocity for the CPESC certification applies only to Levels I and II, this certification provides excellent advanced level training for erosion and sediment control practitioners.

CPESC certification can be substituted for Levels I and II certifications. Reciprocity does NOT apply for the Level III certification.



If an individual with CPESC certification is in good standing, their credentials reside on the EnviroCert International, Inc. website directory. This certification requires annual renewal fees and completion of professional development units per year.

■ CPESC

The CPESC program is an international certification program administered by EnviroCert International, Inc. and is designed to provide professional credentials to individuals working with construction site E&SC issues. Registrants in the program are trained to understand the minimum requirements of the NPDES permit program as well as demonstrate proficiencies in planning and management, erosion prediction, runoff management, soil stabilization, erosion control and sediment control.

For schedules, procedures and fees associated with CPESC, refer to the CPESC website: <http://www.cpesec.org/>

■ NCDOT Erosion and Sediment Control / Stormwater Certification Provision

The NCDOT Erosion and Sediment Control / Stormwater Certification Provision (SP01 G180) can be found at the NCDOT link:

<https://connect.ncdot.gov/resources/Specifications/Pages/Specifications-and-Special-Provisions.aspx>

For contract projects, a chain of responsibility should be established, implemented and maintained throughout the life of the contract as part of the NCDOT Erosion Control and Stormwater Certification Provision.

■ **Recertification**

Level I, II and III certifications are valid for three years. A recertification class and examination are required every three years for renewal of certification. Refer to the NC State University website for specific schedules and fees associated with the recertification process.

A recertification class and examination are required every three years for renewal of certification.



■ **Other Training**

Opportunities for additional training in the erosion, sediment and stormwater disciplines are available for practitioners to pursue as well. Local, state and national training entities provide workshops and courses for those involved at various levels in the planning, design, installation, inspection and maintenance of E&SC practices and stormwater quality. Opportunities for such courses are often advertised through email list servers, university extension notifications and professional association publications.