



**Florida Stormwater, Erosion, and Sedimentation Control Inspector  
Training and Certification Program  
Tier I and Tier II  
January 21<sup>st</sup> & 22<sup>nd</sup>, 2021**

Presented virtually by Osceola County Natural Resources Division



**COURSE SYLLABUS**

**1/21/2021**

**TIER I: Qualified BMP Installer (QBI)**

8:30am – 9:30am	Introduction and Chapter 1 – Erosion and Sediment Control Jeremy Buchanon and Rick Baird, Osceola County Natural Resources Division
9:30am – 9:40am	Break
9:40am – 10:30am	Chapter 2 – Soils Krista Stump, UF/IFAS Extension Services Osceola County
10:30am – 10:40am	Break
10:40am – 12:00pm	Chapter 3 - BMPs for Erosion and Sedimentation Control Eddie Snell, Applied Polymer Systems
12:00pm – 1:00pm	Lunch on your own
1:00pm – 2:00pm	Chapter 4 – BMPs—Vegetation for Erosion Control Susan Gosselin, Osceola County Natural Resources Division
2:00pm – 2:15pm	Break
2:45pm – 4:00 pm	Chapter 5 – BMPs for Dewatering Eddie Snell, Applied Polymer Systems

**Note:** Attendees not interested in becoming a Qualified Compliance Inspector are not required to complete the Day 2 session or the TIER II portion of this class. However, you have only one year from this date to take TIER II without having to repeat TIER I portion. There is no certificate given for TIER I portion. Thank you for attending!

**1/22/2021**

**TIER II: Qualified Compliance Inspector (QCI) and Exam**

8:30am – 9:30am	Chapter 6: Regulations and Statutory Requirements for Erosion Control Jennifer Roberts, DR Horton
9:30am – 9:40am	Break
9:40am – 10:15am	Chapter 7 - The Stormwater Pollution Prevention Plan (SWPPP) Kathryn Campbell, DR Horton
10:15am – 11:00am	Chapter 8 - BMPs for Stormwater Management Alexis Clark, DR Horton
11:00am – 11:15am	Break
11:15am – 12:00pm	Chapter 9 – Inspection and Enforcement Mackenzie Black, Florida Department of Environmental Protection
12:00pm – 1:00pm	Lunch
1:00pm-1:30pm	Review
1:30pm-2:30pm	Proctored Exam via ClassMaker - Exams will be graded today.

Please note you will have one hour to complete this exam. Normally it takes about 40 minutes. This is a closed book exam, with 100 questions. 70% or greater is a passing score. If you pass, you will receive a qualification certificate, which does not require renewal or CEUs. Attendance and successful completion of the full course provides opportunities for the following continuing education credits:

FL Association of Code Enforcement (FACE) officers. 12 CEU's

Certified Floodplain Managers. 9 CFMs

FL Board of Professional Engineers. 8 PDHs

Florida Department of Business and Professional Regulation (DBPR). 8 CEUs for Contractors, Examiners, Inspectors, etc.

DEP's Water and Domestic Wastewater Operator Certification Program. 1.0 CEU (10-hour equivalent) for operators.

# Universal Soil Loss Equation (USLE) and Corresponding C-Factors and P-Factors

## The Universal Soil Loss Equation (USLE)

$$A = R \times K \times L \times S \times C \times P$$

- A = Average annual soil loss (tons/acre)
- R = Rainfall erosion index (Rainfall Kinetic Energy)
- K = Soil erodibility factor (soil survey data)
- L = Slope length factor (dimensionless)
- S = Slope gradient factor (dimensionless)
- C = Vegetative cover factor (dimensionless)
- P = Control practices factor (contractor)

**Rainfall is the only factor not under your control!**

## BMPs or Treatments and Corresponding C-FACTORS and P-FACTORS

TREATMENT	C-FACTOR	P-FACTOR	E OR S
Bare Soil/Packed and smooth	1.60	1.60	
Bare Soil/Roughen	1.00	0.90	S
Sediment Trap or Basin	1.00	0.10 to 0.90	S
Straw Bale	1.00	0.9	S
Silt Fence	1.00	0.6	S
Temporary Vegetation	0.45	1.0	E
Established Vegetation >80% Ground Cover	<0.05	1.0	E
Grass Sod	0.01	1.0	E
Rolled Erosion Control Product	0.10 to 0.30	1.0	E