

# **Construction Erosion and Sediment–Pollution Control (ESC) Course**

University of Washington

## **Course Outline**

### **Day 1**

#### **Introduction**

- Why do we need to worry about erosion and sediment pollution?
- What are the impacts of erosion and sediment to aquatic ecosystems?
- What are the major sources of sediment pollution?
- What is erosion and sediment control?

#### **PNW Construction Site ESC Regulations**

- US–EPA NPDES Regulations
- Washington DOE ESC Regulations
- WSDOT ESC Manual Criteria

#### **The Erosion Process**

- Types of erosion
- Sediment transport and deposition
- The basics of soil science (“the dirt on dirt”)
- Factors controlling erosion
- Revised Universal Soil Loss Equation (RUSLE)
- Current Research Findings

#### **ESC Site Planning and O&M**

- Site Assessment
- ESC Plans
- Clearing and Grading Limitations
- Phasing or Work
- BMP Selection
- O&M
- Inspections
- WQ Monitoring (TSS & Turbidity)

#### **Erosion Control BMP Toolbox**

#### **Sediment BMP Toolbox**

### **Day 2**

#### **Field Trip (transportation and lunch included)**

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