



The Environmental Professional Program
Portland State University



EPP 223 – Site Evaluation and Assessment

Course Summary: The success of a river restoration project depends on the understanding of the river system and its function within the watershed. Complex interacting processes occur on a variety of temporal and spatial scales, and numerous tools are available to help analyze these processes and predict the likely impact of restoration measures. The ability to choose and implement assessment methods appropriate to the project at hand can make the difference between expensive studies that yield few useful results, and insightful tools that help guide planning for years.

This course will familiarize participants with the most widely-used assessment and reconnaissance methods in our region, and will provide a framework for developing river restoration assessment and monitoring plans. The focus will be on best practice methods and integrating new studies with watershed-wide and regional corridor studies. This course will feature regional experts in stream corridor evaluation, assessment techniques and modeling.

Duration: 4 days.

Topics:

- Air photo interpretation.
- Case Study: Site evaluation, design process, permitting, and construction.
- Data collection and management.
- Evaluating stream stability.

- Geomorphic assessments.
- Integrating regulations and permits.
- Interrelationships of watersheds and streams.
- Monitoring parameters, design, and funding.
- Remote sensing.
- Riparian and aquatic habitat evaluation and assessment techniques.
- Stream Macroinvertebrate monitoring.
- Stream classification.
- Useful models.
- Watershed analyses.

Available Professional Credit: 3.1 CEU, 31 PDH.