

Document of Competency: Restoration Ecology 1 Skills



_____ completed 180 hours of ecological restoration instruction through Youth Engaged in Sustainable Systems (YESS!) in __ (school district) _____, a program offered by _____ School District, Pacific Education Institute, and _____ (community partner/s).

Supervisor Contact Information

Teacher Name

Title

Organization

email

Restoration Ecology Professional Name

Title

Organization

email

Summary of Projects

Site

Project Sponsor

Description

Agency Support

This document was created in 2021 in collaboration with: US Forest Service (Mount Baker-Snoqualmie National Forest), WA Department of Natural Resources, King County Parks and Recreation Program, King County Basin Steward Program, Burien PaRCS (Parks, Recreation, and Cultural Services), Seattle Parks and Recreation and the Green Seattle Partnership, and Green River Community College's Natural Resources Department.

Funding Acknowledgement

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Validation of Competency

Methods of Instruction	Methods of Evaluation	Grading Scale	
E = Education Session D = Demonstration	O = Observation V = Verbal review T = Written test	E = Excellent S = Satisfactory	N = Needs Improvement U = Unsatisfactory

	Method(s) of Instruction	Method(s) of Evaluation	Grade	Hours
1. Safety and Personal Well-Being				
Basic Wilderness First Aid				
Site safety assessment				
Proper use of personal protective gear				
Follow directions				
Use of map, GPS, compass				
2. Plant ID and Physiology				
Identify common native, non-native, & invasive plants				
Describe growing conditions for common native plants				
3. Restoration Work				
Site preparation and maintenance				
Non-native weed removal techniques				
Use hand tools, including shovel, loppers, metal rake				
Use an herbicide backpack sprayer (calibrating, mixing, and applying with non-toxic substance)				
Perform restoration site monitoring, including data collection using transects and plots				
4. Salmon and Riparian Systems				
Perform stream health assessments, including water chemistry, stream channel, riparian zone, and aquatic macroinvertebrates				
Describe salmon life cycle and habitat needs				
5. 21st Century Career and Technical Skills				
Environmental Justice: Familiarity with the concepts of diversity, equity and inclusion and how they intersect with environmental work				
Collaborate with others				
Use systems thinking (interconnectedness, emergent properties, causality, feedback loops in an ecosystem)				
Manage and use information				
Demonstrate flexibility				
Demonstrate self-directed learning skills				

Supervisor Signature _____

Date of Completion _____