[school district and community partner logos]

**Industry Recognized Credential (IRC): Advanced Restoration Ecology**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ completed 180 hours of advanced restoration ecology field instruction through a Youth Engaged in Sustainable Systems (YESS) program. This program was offered by [school district], Pacific Education Institute, and [community partner name].

**Supervisor Contact Information**

|  |  |
| --- | --- |
| **School District Teacher**  | **Community Partner Lead** |
| Name: | Name: |
| Title: | Title: |
| Organization: | Organization: |
| Email: | Email: |

**Summary of Projects**

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| --- | --- | --- |
| **Site** | **Project Sponsor** | **Description** |
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**Agency Support**

This document was created in [year] in collaboration with: [partner organizations].

**Funding Acknowledgment**

This program is funded through a collaboration that includes Career Connect Washington, The Office of the Superintendent of Public Instruction, Pacific Education Institute, [the school district, community partner name(s), other funding] organizations.

**Validation of Competency**

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

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| --- | --- | --- | --- | --- | --- |
| **Topics and Competencies** |  | **Instruction Method(s)** | **Evaluation Method(s)** | **Grade** | **Comments (include hours where appropriate)** |
| 1. **Safety, Well-Being, and Ethics**
 |  |  |  |  |
| Demonstrate safe and proper use of tools, including cleaning, maintenance, and storage.  |  |  |  |  |
| Demonstrate ability to reliably engage in fieldwork safely and sustainably. |  |  |  |  |
| Successfully and safely work on a diverse team to accomplish project goals.  |  |  |  |  |
| Perform an onsite safety assessment.  |  |  |  |  |
| 1. **Historical, Traditional, Contemporary Land Management**
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| Explain tribal sovereignty and the difference between tribal lands and Usual and Accustomed Areas. |  |  |  |  |
| Describe historical and contemporary use of fire in ecological land management. |  |  |  |  |
| Compare the differences in land management practices, goals, and use between DNR, USFS, private, and other land managers. |  |  |  |  |
| 1. **Plant Identification and Watershed Ecology**
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| Define a watershed and how the biotic and abiotic components interact.  |  |  |  |  |
| Record elements that comprise a watershed, including hydrology, geology, soil, vegetation, and topography.  |  |  |  |  |
| Assess human impacts in the watershed, including pollutants such as runoff and structural changes like pavement, dams, or culverts.  |  |  |  |  |
| Measure water quality including dissolved oxygen, water temperature, pH, turbidity, conductivity, flow, and velocity.  |  |  |  |  |
| Analyze how *native, non-native, invasive*, and *noxious* plants interact with each other in watersheds. |  |  |  |  |
| Name at least six common plant species using their family, genus, and species. |  |  |  |  |
| 1. **Restoration Ecology Management Plan Implementation**
 |
| Perform control methods within specific ecosystems:  |  |  |  |  |
| Manual |  |  |  |  |
| Mechanical |  |  |  |  |
| Cultural |  |  |  |  |
| Chemical |  |  |  |  |
| Identify an ecosystem based on vegetation present. |  |  |  |  |
| Develop a planting plan based on site conditions and considerations around impacts of climate change. |  |  |  |  |
| Propagate a plant using cuttings, seeds, and transplanting. |  |  |  |  |
| Prepare a procurement plan and a spreadsheet of project costs. |  |  |  |  |
| 1. **Restoration Ecology Laws and Agencies**
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| Use a decision matrix to prioritize restoration site selection. |  |  |  |  |
| Use performance measurements for vegetation monitoring.  |  |  |  |  |
| Use protocol to monitor fish and wildlife observations. |  |  |  |  |
| Participate in a conversation with a community partner about adaptive management strategies. |  |  |  |  |
| Write a monitoring report using an industry template. |  |  |  |  |
| Use legal descriptions to describe property boundaries. |  |  |  |  |
| 1. **Career Pathways**
 |  |  |  |  |
| Demonstrate a professional oral introduction of self to stakeholders. |  |  |  |  |
| Demonstrate appropriate written communication skills in professional settings. |  |  |  |  |
| Develop a professional digital presence. |  |  |  |  |

Community Partner Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date of Completion\_\_\_\_\_\_\_\_\_

Teacher Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date of Completion \_\_\_\_\_\_\_\_