

## Appendix A

### WORK PROCESS SCHEDULE ENVIRONMENTAL TECHNICIAN O\*NET-SOC CODE: 19-4091.00 RAPIDS CODE: 0267 (Laboratory Assistant)

This schedule is attached to and a part of these Standards for the above identified occupation.

#### 1. TYPE OF OCCUPATION

Time-based                       Competency-based                       Hybrid

#### 2. TERM OF APPRENTICESHIP

The term of the occupation is two (2) years with an OJL attainment of 4,000 hours, and supplemented by the required hours of related instruction.

#### 3. RATIO OF APPRENTICES TO JOURNEYWORKERS

Consistent with proper supervision, training, safety, and continuity of employment throughout the apprenticeship, the ratio of apprentices to journeyworkers will be:

Two (2) apprentices may be employed in each shop, and/or job site employing one (1) qualified journeyworker, and two (2) additional apprentices for each additional qualified journeyworker employed thereafter.

#### 4. APPRENTICE WAGE SCHEDULE

Apprentices are paid a progressively increasing schedule of wages during their apprenticeship based on the acquisition of increased skill and competence on the job and in related instruction courses. Before an apprentice is advanced to the next segment of training or to journeyworker completion status, the program sponsor will evaluate all progress to determine whether advancement has been earned by satisfactory performance in their on-the-job learning (OJL) and in related instruction courses. In determining whether satisfactory progress has been made, the sponsor shall be guided by the work experience and related instruction records and reports.

Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly Environmental Technician journeyworker completion wage rate, which is: \$25.00 per hour.

Period	Amount	Percent	OJL Hours	Related Training
1 <sup>st</sup>	\$15.00	60%	0 – 1000 Hours	Satisfactory Progress
2 <sup>nd</sup>	\$17.50	70%	1001 – 2000 Hours	Complete 1 <sup>st</sup> Year
3 <sup>rd</sup>	\$20.00	80%	2001 – 3000 Hours	Satisfactory Progress
4 <sup>th</sup>	\$22.50	90%	3001 – 4000 Hours	Complete 2 <sup>nd</sup> Year

The current journeyworker wage rate shall be modified on any prevailing wage project to comply with the applicable wage rate when the prevailing wage is higher than the journeyman rate specified in the standards. If the prevailing wage rate is less than the rate specified in the standards, the rate in the standards shall prevail.

**5. WORK PROCESS SCHEDULE** (See attached Work Process Schedule)

**6. RELATED INSTRUCTION OUTLINE** (See attached Related Instruction Outline)

**Appendix A**

**WORK PROCESS SCHEDULE  
ENVIRONMENTAL TECHNICIAN**

**O\*NET-SOC CODE: 19-4091.00 RAPIDS CODE: 0267 (Laboratory Assistant)**

During the term of apprenticeship, the Apprentice shall receive such instruction and experience, in all branches of the occupation, as is necessary to develop a practical and versatile worker. Major processes in which Apprentices will be trained (although not necessarily in the order listed) and approximate hours (not necessarily continuous) to be spent in each are as follows:

<b>Work Processes Environmental Technician</b>	<b>OJL Hours</b>
A. Field Data Collection a. Collect, synthesize and interpret field data – including, but not limited to emissions and atmospheric monitoring, meteorological and mineralogical information, soil or water sampling. b. Set up and maintain field monitoring stations including maintenance/calibration of sampling equipment and apparatus, preparing samples for testing/analysis and maintaining sampling documents and records. c. Utilize GPS or other field survey tools to record field data for incorporation into GIS or other mapping systems.	1,000
B. Communicate Field Data a. Record test data and prepare reports, summaries and other visuals interpreting results for internal and external audiences. b. Provide information, technical support and program assistance to governmental agencies, environmental programs, industry or the public.	500
C. Comply with Regulatory Requirements a. Prepare documentation and related materials for permits or licenses required by federal, state or local agencies. b. Identify and provide technical guidance on proper workplace environmental standards and regulations and/or the development of guidelines, policies and codes of practice for environmental management.	750

<p>D. Coordinate and Conduct Site Investigations</p> <ul style="list-style-type: none"> <li>a. Investigate hazardous or dangerous conditions and collect samples for documentation.</li> <li>b. Coordinate site logistics and equipment transport for seasonal field stations and crews.</li> <li>c. Conduct environmental audits and inspections and investigations of violations.</li> <li>d. Summarize field data to identify sources of pollution and support pollution abatement or control activities.</li> <li>e. Comply with safety regulations, policies, procedures and daily site safety.</li> </ul>	1,000
<p>E. Implement Programs in the Field</p> <ul style="list-style-type: none"> <li>a. Monitor environmental impacts of development activities and provide recommendations minimize impacts and restore services.</li> <li>b. Conduct field activities including, but not limited to re-vegetation or other ecological services restoration projects.</li> </ul>	750
<b>Total Hours</b>	<b>4,000</b>

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**RELATED INSTRUCTION OUTLINE  
ENVIRONMENTAL TECHNICIAN**

**O\*NET-SOC CODE: 19-4091.00 RAPIDS CODE: 0267 (Laboratory Assistant)**

Source: Program Sponsor  
Method: Classroom; Electronic Media

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The related instruction outlines the courses that provide the technical ability that supplements the on-the-job training. It is through the combination of both the on-the-job training and the related technical instruction that the apprentice can reach the skilled level of the occupation. Under a registered apprenticeship, 144 hours of related instruction each year of the apprenticeship is recommended. The following is the suggested course curriculum during the term of apprenticeship.

<b>Schedule of Related Instruction - Environmental Technician Apprenticeship</b>		
<b>Year One</b>		
HAZWOPER	40	In-person
OSHA General Industry Education	10	In-person
NSTC Unescorted + H2	9	In-person
Confined Space	8	In-person
First Aid/CPR	8	In-person
Driving Safety	6	In-person
Energy Isolation/Fall Protection	8	In-person
Hazardous Materials Awareness	10	In-person/On-line
Shipping & Transportation DOT/IATA	24	In-person
Forklift Training	8	In-person
GPS/GIS Mapping Skills	8	In-person
MSHA Awareness	4	In-person/On-line
ATV/ORV/Small Motor OMS	8	In-person
Trenching & Excavating	8	In-person
Recognizing Archeological Sites	4	In-person/On-line
Alaska Qualified Sampler Training	24	In-person
Effective Employment Skills	6	In-person
<b>Year One Total Hours</b>	<b>193</b>	

<b>Year Two</b>		
Geology, Hydrogeology & Chemistry	8	In-person/Online
Alaska Certified Erosions & Sediment	16	In-person
OSHA Industrial Hygiene	26	In-person
HAZWOPER Refresher	8	In-person
Math for Environmental Workers	8	In-person/Online
Communication for Environmental Workers	8	In-person/Online
Computer Skills for Environmental Workers	8	In-person/Online
Managing Household Hazardous Waste	8	In-person/Online
Recycling Health & Safety	8	In-person/Online
Lead/Asbestos Awareness Level	4	In-person/online
Solid Waste Management in Alaska	8	In-person/Online
UST Inspection/Maintenance	8	In-person
Electives*	24	In-person/Online
<b>Year Two Total Hours</b>	<b>142</b>	
<b>Total Program Hours</b>	<b>335</b>	

\*Electives will allow participants to individualize their training and target specific job titles. Courses must be approved by Alaska Forum to qualify for credit and include, but are not limited to the following courses:

- Forest Resource Inventory Training
- ICS-100; Introduction to ICS
- ICS-200; ICS for Single Resource & Initial Actions
- IS-700, 703, 706 and 800
- IS-5.A
- OSHA Disaster Site Worker
- OSHA 7105
- Basic Firefighting/Red Card
- ISO 14001 Environmental Management Systems
- Intro. To Endangered Species Act
- Underground Storage Tank Management
- Spill Preventions, Control and Countermeasure Planning
- Introduction to FIFRA
- Introduction to EPCRA
- Introduction to HMTA
- Introduction to TSCA
- Intermediate CERCLA
- Introduction to CERCLA
- Introduction to RCRA
- Intermediate RCRA
- Introduction to SDWA
- Introduction to NPDES
- The Clean Water Act
- Air Emission Control Technologies
- Title V Air Permitting
- The Clean Air Act
- Basics of Environmental Law
- Introduction to Environmental Law