

## Appendix A

### **OCCUPATION SCHEDULE FOR: ENVIRONMENTAL TECHNICIAN (LABORATORY ASSISTANT)**

**O\*NET/SOC CODE: 197-4091.00**  
**RAPIDS CODE: 0267**

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

#### **1. TERM OF APPRENTICESHIP**

The term of the occupation shall be a minimum of two (2) years with an on the job learning (OJL) attainment of 4,000 hours and supplemented by the required hours of related instruction.

#### **2. 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.

#### **3. APPRENTICE WAGE SCHEDULE**

Apprentices shall be paid a progressively increasing schedule of wages based on a percentage of the current journeyworker wage rate, as follows:

Period	Amount	Percent	OJL Hours	Related Training Component
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 Environmental Technician journeyworker wage rate is \$25.00 per hour.

At no time may the starting wage be less than the minimum wage established by law. To be advanced to the next level the apprentice must have completed both the on the job learning (OJL) hours and the related training component, as stated above.

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.

#### 4. SCHEDULE OF WORK EXPERIENCE

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</b>	<b>OJL Hours</b>
A. Environmental Field Data Collection:	800
1. Collect, synthesize, and report environmental data, such as; emission and atmospheric monitoring measurements, meteorological and mineralogical information, soil or water samples, or other field data	
2. Collect data to support determination of validity, quality, and scientific significance, and to interpret correlations between human activities and environmental effects	
3. Implement data collection methods to be employed in research projects and surveys	
4. Maintenance and calibration of sampling equipment/instruments/apparatus	
5. Set-up equipment or stations to monitor or collect environmental data.	
6. Prepare samples for testing and analysis	
7. Record test data and prepare reports, summaries and charts that interpret the results	
8. Maintain sampling documents and records	
B. Communicate Environmental Data:	600
1. Communicate scientific and technical information to project manager or internal audiences through oral briefings, written documents, or workshops. Support external presentation of data to public or organizations.	
2. Prepare tables/figures/charts/graphs from data samples, providing summary information on the environmental relevance of the data.	
3. Provide information, technical support and program assistance to governmental agencies, environmental programs, industry, or the public.	
C. Comply with Environmental Regulatory Requirements:	600
1. Process environmental permits, licenses, and related materials.	
2. Implement environmental technical standards, guidelines, policies, and regulations	
3. Provide technical guidance on proper standards and regulations or the development of policies, strategies, and codes of practice for environmental management.	

D. Conduct Environmental Site Investigations:	650
1. Investigate and report on incidents/accidents affecting the environment.	
2. Research sources of pollution to determine their effects on the environment and to support pollution abatement or control under the direction of Project Manager.	
3. Evaluate violations or problems discovered during inspections.	
4. Conduct environmental audits and inspections, and investigations of violations.	
E. Support environmental research or studies on environmental topics, such as waste control/treatment and environmental impact abatement methods to obtain technical environmental information about planned projects.	325
F. Implement Environmental Programs:	525
1. Monitor environmental impacts of development activities and recommend means of prevention or control.	
2. Implement programs (re-vegetation, ecological sciences, restoration) designed to obtain the most productive, non-damaging use of land.	
3. Implement methods to minimize the impact of production processes on the environment.	
G. Utilize geo-positioning devices (GPS) or other field survey tools to record field data so that data can be incorporated into GIS or other computer mapping systems.	100
H. Coordinate site logistics, procurement, packing tools and instruments, and equipment transport.	200
I. Comply with safety regulations, policies, procedures and daily site safety.	200
<hr/> <b>Total Hours</b>	<b>4,000</b>

## 5. SCHEDULE OF RELATED INSTRUCTION

Source: Program Sponsor and Third Party Trainers  
 Method: Classroom and Electronic Media

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.

### SUBJECT AREAS – YEAR ONE CORE TRAINING REQUIREMENTS

<b>Program Instruction</b>	<b>Hours</b>
1. Hazardous Waste Operations and Emergency Response	40
2. North Slope Training Cooperative + H2S	9
3. First Aid/CPR/AED/BBP	8
4. Field & Bear Awareness	4
5. Field Sampling Techniques	4
6. GIS Usage/Mapping	4
7. Aircraft Safety	2
8. Effective Employment Skills	6
<b>Sub-total</b>	<b>77</b>

### SUBORDINATE TRAINING REQUIREMENTS

<b>Programs of Instruction - Awareness Level</b>	<b>Hours</b>
1. Shipping & Transportation - IATA/DOT	24
2. Confined Space	8
3. Construction OSHA 1926	30
4. Energy Isolation and Fall Protection	8
5. Driving Safety	6
6. Trenching and Excavating	8
7. Modules: Respiratory Protection (2); Natural Occurring Radiation (2); Lead (1); Benzene (1); Hearing Conservation (1); Asbestos (1)	8
<b>Sub-total</b>	<b>92</b>
<b>Total Hours – Year One</b>	<b>169</b>

**SUBJECT AREAS – YEAR TWO**

<b>Program Instruction</b>	<b>Hours</b>
1. Introduction to Ecology	8
2. Geology	6
3. Air Quality	12
4. Water and Wastewater	12
5. Hazardous Materials	7
6. Hazardous Waste Management	10
7. Climate Change	8
8. Drinking Water	2
9. Spill Prevention	8
10. Contaminated Sites & Remediation	8
11. Solid Waste Management	8
12. Underground Storage Tanks	2
13. Computer Applications	24
14. HAZWOPER Refresher	8
15. Environmental Electives	21
• Toxic Substance Control Act (TSCA)	
• Environmental Management Systems (EMS)	
• Environmental Site Assessment (ESA)	
• Federal Insecticide, Fungicide and Rodent Act (FIFRA)	
• Emergency Planning and Community Right-to-Know Act (EPCRA)	
• Site Safety Coordination	
• Project Management Fundamentals	
• Asbestos Abatement – 40 Hours	
• Introduction to Environmental Law – 2 Hours	
• Basics of Environmental Law – 20 Hours	
• Endangered Species Act – 2 Hours	
<b>Total Hours – Year Two</b>	<b>144 Hours</b>