

## NO RTEC JOB SPECIFIC SKILLS COMPETENCY

### ENVIRONMENTAL ANALYST (Environmental Scientist)

DOT: 029.081-010 / O'NET: 24199B SVP 8

**Job Description:** Conducts research to develop methods of abating, controlling, or remediating sources of environmental pollutants, utilizing knowledge of various scientific disciplines. *Physical Demands* - Mildly active w/ light lifting, carrying, or moving (up to 20 lbs); *General Educational Development* - R6 M6 L6; *Aptitudes* - Above Average General Learning Ability, Verbal Aptitude, Numerical Aptitude, Spatial Aptitude - Average Form Perception, Clerical Perception, Motor Coordination, Finger Dexterity, and Manual Dexterity.

### CORE SKILL COMPETENCIES/INDIATORS:

1. Can demonstrate familiarity with basic principles and theories of science, engineering and mathematics. (IN, S)
2. Can demonstrate understanding of current environmental policy issues. (IN, S, T)
3. Can demonstrate ability to set up, operate and maintain industry-specific laboratory instruments, including computers and computer-interfaced equipment used to record and analyze research data. (R, IN, S, T)
4. Can demonstrate ability to appropriately determine data collection methods to be employed in environmental research projects and surveys. (IN, S, T)
5. Can demonstrate ability to plan and develop research models, using knowledge of mathematical, statistical, and physical science concepts and approaches. (IN, S, T)
6. Can demonstrate ability to identify and analyze sources of environmental pollution to determine their effects. (R, IN, S)
7. Can demonstrate ability to collect and synthesize data derived from pollution emission measurements, atmospherical monitoring, meteorological and mineralogical information and soil or water samples. (R, IN, S)
8. Can demonstrate ability to prepare graphs charts, and statistical models from synthesized data using knowledge of mathematical, statistical and engineering analysis techniques. (R, IN, S, T)
9. Can demonstrate ability to evaluate data to accurately assess pollution problems. (IN, S, T)
10. Can demonstrate ability to establish standards and develop approaches for control of pollution. (IN, S, T)
11. Can demonstrate ability to prepare technical and/or research reports. (IN, S, T)
12. Can demonstrate ability to keep detailed logs of all work-related activities. (IN, S)
13. Can demonstrate ability to organize and write staff reports related to environmental planning. (R, IN, S)
14. Can demonstrate ability to devise projects that support both the environment and community. (R, IN, S)
15. Can demonstrate ability to confer with scientists, engineers, regulators, and others to plan and review projects, and to provide technical assistance. (R, IN, I, S, T)
16. Can demonstrate ability to research, write, and/or administer grants on environmental issues. (IN, I, S, T)
17. Can demonstrate knowledge of program-specific regulations, policies and procedures. (IN, S)
18. Can demonstrate ability to assist and advise outside agencies and the public regarding regulations, policies, and program procedures. (IN, I, S)
19. Can demonstrate good speaking and writing communication skills. (IN, I, S)
20. Can demonstrate ability to work as a member of a physical science team. (I)