Program Competencies for the MSEH

1. Conduct a thorough literature review in support of environmental health research.
2. Identify an appropriate and relevant research problem.
3. Propose appropriate data collection and measurement techniques to conduct environmental health research.
4. Properly cite and reference peer-reviewed literature in research papers.
5. Present environmental data and results in an appropriate graphical or tabular form.
6. Apply current environmental risk assessment methods and communicate the results to various audiences.
7. Describe federal and state regulatory programs, guidelines and authorities that control environmental health issues.
8. Understand the role of environmental hazards and exposures in public health protection.
9. Analyze and apply research data using epidemiological, statistical and graphical methods.
10. Identify common chemical, biological, and physical hazards. This entails recognizing the potential (for a given scenario) of a hazard to cause harm to human health or the environment and defining the hazard characteristics.
11. Propose common and appropriate control methods for common chemical, biological and physical hazards.
12. Describe appropriate quality assurance and quality control methods to evaluate and insure data integrity.