

# Epidemiology Competency Assessment Form — Tier 2 Epidemiologist

**Individuals** — Use this form to evaluate your level of understanding and ability to perform each of the following competencies.

**Organizations** — Use this form to evaluate epidemiologic competence of current staff members.

**Training and Competency:**  
 1 = Awareness: You have no training or experience.  
 2 = Basic: You have received basic training.  
 3 = Intermediate: You have repeated successful experiences.  
 4 = Advanced: You can perform the actions associated with this skill without assistance.  
 5 = Expert: You are known inside or outside the organization as an expert.

**Importance:**  
 1 = An important competency for my position  
 2 = Neutral  
 3 = Not an important competency for my position

**Frequency:**  
 D = Daily  
 W = Weekly  
 M = Monthly  
 R = Rarely  
 A = As needed

Skill Domain	Epidemiology Competency: The competency statements below are abbreviated from the comprehensive competency statements in the AEC document	1	2	3	4	5	Importance	Frequency
1, A-1	Use critical thinking to determine whether a public health problem exists							
1, A-2	Articulate the need for further investigation or other public health action from literature review and assessment of current data							
1, A-3	Collaborate with others inside and outside the agency to identify the problem and form recommendations							
1, B-1,2	Design surveillance for a public health issue and identify surveillance data needs							
1, B-3,4	Implement new or revise existing surveillance system and identify key surveillance findings							
1, B-5	Conduct evaluation of surveillance systems							
1, C-1,2	Conduct a community health assessment and recommend priorities of potential public health problems to be addressed							
1, C-4,5	Assist in design of an investigation, including hypothesis generation							
1, D-1	Follow ethics guidelines and principles when planning studies; conducting research; and collecting, disseminating, and using data							
1, D-3	Describe differences between public health practice and public health research							
1, D-4,5	Describe human subjects research, and apply Institutional Review Board (IRB) processes, as necessary							
1, D-7	Apply knowledge of privacy laws to protect confidentiality, including Health Insurance Portability and Accountability Act (HIPAA) and applicable state and local privacy laws							
1, E-1,2	Define database requirements, and manage a database							



**APPLIED EPIDEMIOLOGY  
COMPETENCIES**

# Epidemiology Competency Assessment Form — Tier 2 Epidemiologist (page 2)

**Individuals** — Use this form to evaluate your level of understanding and ability to perform each of the following competencies.

**Organizations** — Use this form to evaluate epidemiologic competence of current staff members.

**Training and Competency:**  
 1 = Awareness: You have no training or experience.  
 2 = Basic: You have received basic training.  
 3 = Intermediate: You have repeated successful experiences.  
 4 = Advanced: You can perform the actions associated with this skill without assistance.  
 5 = Expert: You are known inside or outside the organization as an expert.

**Importance:**  
 1 = An important competency for my position  
 2 = Neutral  
 3 = Not an important competency for my position

**Frequency:**  
 D = Daily  
 W = Weekly  
 M = Monthly  
 R = Rarely  
 A = As needed

Skill Domain	Epidemiology Competency: The competency statements below are abbreviated from the comprehensive competency statements in the AEC document	1	2	3	4	5	Importance	Frequency
1, F-1,2	Create analysis plans and conduct analysis of data							
1, G-1	Apply knowledge of epidemiologic principles and methods to make recommendations regarding the validity of epidemiologic data							
1, G-2	Assess the need for special analyses							
1, H-1	Establish cultural/social/political framework for recommendations or interventions							
1, H-2	Use scientific evidence in preparing recommendations for action or interventions							
1, I-1	Assist in the development of measurable and relevant goals and objectives							
1, I-2	Assist in the development of program logic models and theories of action							
2, A	Use current knowledge of causes of disease to guide epidemiologic practice							
2, A-2	Apply understanding of human and environmental biology and behavioral sciences and principles to determine potential biological mechanisms of disease							
2, B	Use laboratory resources to support epidemiologic activities							
3, A-3	Communicate epidemiologic information through giving oral presentations or contributing to the development of written documents to nonprofessional audiences							
3, B	Demonstrate the basic principles of risk communication							
3, D	Use effective communication technologies							
4	Provide epidemiologic input for community planning processes							
5	Practice culturally sensitive epidemiologic activities							
6	Apply appropriate fiscal and administrative guidelines to epidemiology practice							
7, D	Promote ethical conduct in epidemiologic practice							
7 & 8	Use leadership and systems thinking in epidemiologic planning and policy development							



**APPLIED EPIDEMIOLOGY  
 COMPETENCIES**