

**Training Course in Maternal and Child Health Epidemiology  
Albuquerque, New Mexico  
June 10 - 15, 2007  
Sponsors: HRSA/MCHB and CDC**

**Complete this application form in its entirety and submit via mail, fax, or email.**

**Important: STATE AGENCY EMPLOYEES** -- This application must be accompanied by a letter from your state MCH director indicating that he/she is aware you are applying for the training class.

The **deadline** for application submission is **March 5, 2007**. Submit applications to:

CRP, Inc.  
Attn: Lynita Kimble  
4201 Connecticut Avenue, NW, Suite 503  
Washington, DC 20008

Phone: (202) 362-0691  
Toll-Free: (866) CRPHRSA  
Fax: (202) 362-1675  
Email: [lkimble@crpcorp.com](mailto:lkimble@crpcorp.com)

(Please Print Clearly or Type)

**1. NAME:**

Dr./Mrs./Ms./Mr. First \_\_\_\_\_ MI \_\_\_\_\_ Last \_\_\_\_\_

**2. TITLE:** \_\_\_\_\_

**3. ORGANIZATION/AGENCY NAME:** \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**4. PHONE:**

Daytime # ( ) \_\_\_\_\_ Extension \_\_\_\_\_

Alternative # ( ) \_\_\_\_\_ Fax # ( ) \_\_\_\_\_

**5. Email:** \_\_\_\_\_

**6. Please provide a brief description of your current job responsibilities.**

**7. How long have you been performing these activities?**

- \_\_\_\_\_ Less than 1 year
- \_\_\_\_\_ 2-5 years
- \_\_\_\_\_ More than 5 years

**8. Please identify and describe any key community-based service partnerships of your unit.**

**9. Please identify any key research project(s) affiliated with your unit.**

**10. Gender:**

Male    Female

**11. Age:**

- Under 22
- 23 – 30
- 31– 40
- 41 – 50
- 51 – 60
- 61 and over

**12. Emergency Contact:**

Name \_\_\_\_\_

Phone (    ) \_\_\_\_\_

**13. Race/Ethnicity:**

- African American/Black
- Asian
- American Indian/Alaska Native
- Hispanic/Latino
- Pacific Islander or Native Hawaiian
- White
- Other \_\_\_\_\_

**14. Primary Language (If not English):**

\_\_\_\_\_

**15. Education:**

School Name

Degree/Date/Area of Specialty


***Please list any continuing education/training:***

Course Topic

Sponsoring Agency


**16. Please rate your skills in the following areas:**

Category	Fair	Poor	Good	Comments
Epidemiology				
Biostatistics				
Program Evaluation				
Questionnaire Design				
Data Analysis				
Needs Assessment				
Linking Data Sets				
Database Management				

**17. Do you consider yourself proficient in performing the following tasks:**

Task	Highly Proficient	Somewhat Proficient	Not at all Proficient
Writing programming statements to recode variables			
Creating dummy variables			
Creating derived variables			
Delineating an analysis plan			
Creating tables and graphs			
Moving files between software packages			
Selecting appropriate statistics to report			
Working with SAS, SPSS, or any other statistical package			

18. What skills are you expecting to acquire and/or refine as a result of participating in this course?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. What datasets are currently used by your agency/organization (e.g. census data, vital records, WIC, PRAMS, YRBS, etc.)?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. Do you use these datasets directly or do you delegate their use to someone else? Yes No  
*If you delegate, to whom?*

21. Which of the following telecommunications technologies do you have access to at your agency/organization?

- \_\_\_\_ Computer Network
- \_\_\_\_ Email
- \_\_\_\_ Internet
- \_\_\_\_ with audio player
- \_\_\_\_ with video player
- \_\_\_\_ Fax
- \_\_\_\_ Video Tape
- \_\_\_\_ Live Video
- \_\_\_\_ Cable
- \_\_\_\_ Satellite

22. Which operating system(s) do you use?

- \_\_\_\_ Windows 95/98
- \_\_\_\_ Windows 2000/NT
- \_\_\_\_ Windows XP
- \_\_\_\_ Mac
- \_\_\_\_ UNIX
- \_\_\_\_ Solaris
- Other, (please specify) \_\_\_\_\_

23. Which statistical packages do you know how to use?

- \_\_\_\_ SAS
- \_\_\_\_ SPSS
- \_\_\_\_ STATA
- \_\_\_\_ SUDAAN
- \_\_\_\_ Epi-Info
- \_\_\_\_ EPI-Map
- \_\_\_\_ ArcView
- Other, (please specify) \_\_\_\_\_

24. Which other applications do you use?

- \_\_\_\_ Corel Office
- \_\_\_\_ Lotus Notes
- \_\_\_\_ Lotus Smart Suite
- \_\_\_\_ Microsoft Exchange
- \_\_\_\_ Microsoft Access
- \_\_\_\_ Microsoft Excel
- \_\_\_\_ Microsoft Word
- \_\_\_\_ Groupwise
- Other, (please specify) \_\_\_\_\_

25. As a part of this program, participants will have the opportunity to receive short term, individual consultation on data-related issues. In order for this to be effective, please provide a brief description of the topic(s) for which you might want assistance.

26. The training course includes three (3) core modules: Epidemiology/Biostatistics, Needs Assessment, and Program Evaluation. A brief description of each module is outlined below.

#### **Epidemiology/Biostatistics**

- Background—The Sampling Framework
- Statistics in a Public Health Context
- Measures of Occurrence and Measures of Association
- Confidence Intervals and Statistical Testing
- Confounding and Effect Modification
- Risk factors v. risk markers
- Interpretation of results; implications for program and policy development

#### **Needs Assessment**

- Description of the public health planning process
- Needs assessment definition and process
- Organizational strategy to completing the needs assessment
- Prioritization process of identified needs
- Developing and using problem analysis and mapping
- Framing of key research questions
- Review of methodologies to answer identified questions
- Developing a public health program based on problem analysis
- Connecting problem analysis to program development
- Developing program goals and objectives
- Using logic models and scientific evidence

#### **Program Evaluation**

- Evaluation design issues: goals, outcomes, process data, costs
- Evaluation design issues: comparison groups and sample size,
- Measurement and data issues: primary or secondary data, data collection approaches, data quality, choosing/creating measures
- Preparation and accountability issues: identification of stakeholders, relationship of evaluator to program

In addition, several *Special Topics* will be included in this year's curriculum. Possible topics include: 1) **Multivariable Regression Modeling**; 2) **Perinatal Periods of Risk (PPOR)**; 3) **Setting Targets for Performance and Outcome Measures**; 4) **Small Area Analysis**; 5) **Summarizing Data: Ranking and Scoring Methods**; 6) **Trend Analysis**; and 7) **Using Attributable Risk Measures**.

You can help determine which of these topics will be covered in the training course by reviewing the following brief descriptions and indicating your *top 3 selections* with (1) as your first choice, (2) as your second choice and (3) as your 3rd choice.

#### **Rank    \_\_\_\_\_    Multivariable Regression Modeling**

- Overview of multivariable regression modeling
- Different types of models: ordinary least squares, logistic, poisson, multilevel
- Approaches to building regression models—which measures are included
- Interpreting the results from different multivariable regression models
- Presenting results from multivariable regression models

- Rank \_\_\_\_ **Perinatal Periods of Risk (PPOR)—new systematic community approach to Investigating feto-infant mortality**
- Basic PPOR approach
  - Principles of PPOR mapping
  - Calculating excess mortality through using local and national reference groups
  - Different investigative approaches to examining excess mortality
  - Using Kitagawa, a partitioning formula, to estimate the impact of changes in birthweight distribution and mortality
  - Connecting PPOR and Fetal and Infant Mortality Reviews
  - Providing answers and materials for the most frequently asked questions
- Rank \_\_\_\_ **Setting Targets for Performance and Outcome Measures**
- Developing a framework and analytic strategy for target-setting
  - Integrating data from multiple sources
  - Addressing disparities across populations
  - Incorporating current data and/or, trend data
  - Using means, medians, rates, and percentiles
  - Anchoring targets to national, state, or local standards
- Rank \_\_\_\_ **Small Area Analysis**
- Background—describing variation in health indicators within and across well-defined geographic areas
  - Understanding potential sources of variation: differences in morbidity, access to care, physician judgment, quality of care, patient demand for services, and random variation
  - Defining small area boundaries
  - Statistical approaches for analyzing small numbers
  - Implications of geographic variation for program and policy development
- Rank \_\_\_\_ **Summarizing Data: Ranking and Scoring Methods**
- Methods for reducing the data burden and increasing interpretability
  - Developing an analysis plan
  - Choosing indicators
  - Defining domains and categories for indicators
  - Integer ranking, percentile rescaling, scoring, and creating indices
  - Choosing and designing meaningful text, tables and graphs
- Rank \_\_\_\_ **Trend Analysis**
- Understanding changes in health indicators over time
  - Using trend data to examine disparities between groups
  - Using trend data to monitor progress toward national, state, or local objectives
  - Overview of statistical issues for trend analysis
  - Overview of approaches for graphical presentation of trend data
- Rank \_\_\_\_ **Using Attributable Risk Measures**
- The alternative perspective gained by using measures of absolute rather than relative risk
  - Calculation and interpretation of the attributable risk, the attributable risk %, the population attributable risk, the population attributable risk %, and the preventive fraction
  - Using attributable risk measures for priority setting and program planning
  - Using attributable risk measures for program evaluation

27. How did you hear about this training course?

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Application Signature Page

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Applicant's Signature/Date

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Supervisor's Name/Title

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Supervisor's Signature/Date

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If you applied online, please fax this signature page, by March 5, 2007 to (202) 362-1675.

Thank you!

