

2010

PUBLIC HEALTH PROGRAM OVERVIEW & WORKBOOK



CENTRAL DISTRICT HEALTH

DEPARTMENT

MERIT BADGE UNIVERSITY

OVERLAND TRAILS COUNCIL

7/31/2010

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(WILL BE COMPLETED DURING CLASS)

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(MUST HAVE UNIT LEADER SIGNATURE PRIOR TO CLASS)



FEBRUARY 2010

Information in this booklet was accurate at the time of publishing.
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Program Overview & Workbook was reviewed by
MBU Staff/Committee.

PUBLIC HEALTH PROGRAM OVERVIEW

COUNSELOR: tba

C/O: Overland Trails Council
PO Box 1361
Grand Island, NE 68802-1361

LOCATION: Central District Health Department
1137 South Locust Street
Grand Island, NE 68801

TRANSPORTATION: Transportation is provided

ADDITIONAL COSTS: None

CLASS SIZE: 15

BRING TO CLASS: Public Health merit badge pamphlet.
Public Health merit badge workbook, part one & part two
Signed "Application for Merit Badge", found at the end of the merit badge workbook. (This will be your only record of work completed on this merit badge.) If your Council requires the official "blue card", you must bring one with you to class.

PRE-REQUISITES: Complete Part One of the workbook before class (requirements 6 & 8).
Complete information on the "Application for Merit Badge" including Scoutmasters signature.

CURRICULUM: Requirements 1, 2, 3, 4, 5, & 7 will be completed during class (part two of the workbook). Pre-requisites will also be reviewed during class.



PRE-REQUISITE REQUIREMENTS ARE PRINTED IN **ITALICS &**
MUST BE COMPLETED BEFORE CLASS.

1. Explain what public health is. Explain how *Escherichia coli* (E. coli), tetanus, AIDS, encephalitis, salmonellosis, and Lyme disease are contracted. Then, pick any four of the following diseases and explain how each one is contracted: gonorrhea, West Nile virus, botulism, influenza, syphilis, hepatitis, emphysema, meningitis, herpes, lead poisoning. For all 10 diseases, explain the type or form of the disease (viral, bacterial, environmental, toxin), any possible vectors for transmission, ways to help prevent the spread of infection, and available treatments.
2. Do the following:
 - a) Explain the meaning of *immunization*.
 - b) Name five diseases against which a young child should be immunized and two diseases against which everyone should be re-immunized periodically.
 - c) Using the diseases you chose for requirement 1, discuss the diseases for which there is currently no treatment or immunization.
3. Discuss the importance of safe drinking water in terms of the spread of disease. Then, demonstrate two ways for making water safe to drink that can be used while at camp. In your demonstration, explain how dishes and utensils should be washed, dried, and kept sanitary at home and in camp.
4. Explain what a vector is and how insects and rodents can be controlled in your home, in your community, and at camp. Tell why this is important. In your discussion, explain which vectors can be easily controlled by individuals and which ones require long-term, collective action.
5. With your parent's and counselor's approval, do ONE of the following:
 - a) Visit a municipal wastewater treatment facility OR a solid-waste management operation in your community. Describe how the facility safely treats and disposes of sewage or solid waste. Describe how sewage and solid waste should be disposed of under wilderness camping conditions
 - b) Arrange to meet with the food service manager of a food service facility (such as a restaurant or school cafeteria) and visit this establishment. Observe food preparation, handling, and storage, and learn how the facility keeps foods from becoming contaminated. Find out what conditions allow microorganisms to multiply in food and how conditions can be controlled to help prevent the growth and dissemination of microorganisms. Learn how microorganisms in food can be killed. Discuss what you learned with your counselor.
6. **Do the following:**
 - a) **Describe the health dangers from air, water, and noise pollution.**
 - b) **Describe health dangers from tobacco use and alcohol and drug abuse.**

7. With your parent's and counselor's approval, visit your city, county, or state public health agency. Discuss how the agency addresses the concerns raised in requirements 1 through 6 and how the services provided by this agency affect your family. Then do the following:
 - a) Compare the four leading causes of mortality (death) in your community for any of the past five years with the four leading causes of morbidity (incidence of disease) in your community. Explain how the public health agency you visited is trying to reduce the mortality and morbidity rates of these leading causes of illness and death.
 - b) Explain the role of the health agency you visited related to the outbreak of diseases.
 - c) Discuss the kinds of public assistance the agency is able to provide in case of disasters such as floods, storms, tornadoes, earthquakes, and other acts of destruction. Your discussion can include the cleanup necessary after a disaster occurs.
8. **Pick a profession in the public health sector that interests you. Find out the education, training, and experience required to work in this profession. Discuss what you learn with your counselor.**

PUBLIC HEALTH WORKBOOK

PART ONE, PRE-REQUISITIES



Name _____
Unit # _____ District _____
Council _____

Part One of the workbook must be completed before class.

Bring the entire workbook (part one and part two) with you to class.

Also bring the "Application for Merit Badge" signed by your scoutmaster (included at the end of the workbook).

- 6. Do the following:
 - a) Describe the health dangers from air, water, and noise pollution.

Describe the health dangers from air:

Describe the health dangers from water:

Describe the health dangers from noise pollution:

- b) Describe health dangers from tobacco use and alcohol and drug abuse.

Describe health dangers from tobacco use:

Describe health dangers from alcohol use:

Describe health dangers from drug abuse:

Name _____

- 8. Pick a profession in the public health sector that interests you. Find out the education, training, and experience required to work in this profession. Discuss what you learn with your counselor.

Career opportunities in public health:

1.

2.

3.

Pick one career:

Career:

Education:

Training:

Experience:

Why this profession interest's you:



PUBLIC HEALTH WORKBOOK PART TWO, CLASS CURRICULUM

Name _____
Unit # _____ District _____
Council _____

Part Two of the workbook will be completed during class.

1. Explain what public health is. Explain how *Escherichia coli* (E. coli), tetanus, AIDS, encephalitis, salmonellosis, and Lyme disease are contracted. Then, pick any four of the following diseases and explain how each one is contracted: gonorrhea, West Nile virus, botulism, influenza, syphilis, hepatitis, emphysema, meningitis, herpes, lead poisoning. For all 10 diseases, explain the type or form of the disease (viral, bacterial, environmental, toxin), any possible vectors for transmission, ways to help prevent the spread of infection, and available treatments.

Explain what public health is:

Explain how the following are contracted:

<i>Escherichia coli</i>	
<i>Tetanus</i>	
<i>AIDS</i>	
<i>Encephalitis</i>	
<i>Salmonellosis</i>	
<i>Lyme disease</i>	

Pick four diseases and explain how each one is contracted:

1	
2	
3	
4	

Name _____

2. continued

- b) Name five diseases against which a young child should be immunized and two diseases against which everyone should be re-immunized periodically.

Name five diseases against which a young child should be immunized:

1

2

3

4

5

Name two diseases against which everyone should be re-immunized periodically:

1

2

- c) Using the diseases you chose for requirement 1, discuss the diseases for which there is currently no treatment or immunization.

Discuss the diseases from requirement 1, for which there is currently no treatment or immunization:

Name _____

- 3. Discuss the importance of safe drinking water in terms of the spread of disease. Then, demonstrate two ways for making water safe to drink that can be used while at camp. In your demonstration, explain how dishes and utensils should be washed, dried, and kept sanitary at home and in camp.

Importance of safe drinking water:

Demonstrate two ways for making water safe:

Explain how dishes and utensils should be washed, dried, and kept sanitary:

- 4. Explain what a vector is and how insects and rodents can be controlled in our home, in your community, and at camp. Tell why this is important. In your discussion, explain which vectors can be easily controlled by individuals and which ones require long-term, collective action.

Explain what a vector is:

How insects and rodents can be controlled in your home, community, and camp:

Explain which vectors can be easily controlled and which ones require long-term, action:

Name _____

- 7. With your parent’s and counselor’s approval, visit your city, county, or state public health agency. Discuss how the agency addresses the concerns raised in requirements 1 through 6 and how the services provided by this agency affect your family. Then do the following:

Visited:

<i>initial:</i>	<i>date</i>
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Discuss how the agency addresses the concerns in requirements 1—6:

- a) Compare the four leading causes of mortality (death) in your community for any of the past five years with the four leading causes of morbidity (incidence of disease) in your community. Explain how the public health agency you visited is trying to reduce the mortality and morbidity rates of these leading causes of illness and death.

Leading causes of mortality in your community:

How the public health agency is trying to reduce mortality and morbidity rates:

- b) Explain the role of the health agency you visited related to the outbreak of diseases.

The role of the health agency related to the outbreak of disease:

Name _____

7. continued

- c) Discuss the kinds of public assistance the agency is able to provide in case of disasters such as floods, storms, tornadoes, earthquakes, and other acts of destruction. Your discussion can include the cleanup necessary after a disaster occurs.

Kinds of public assistance in case of disasters such as:

<i>Floods</i>	
<i>Storms</i>	
<i>Tornadoes</i>	
<i>Earthquakes</i>	
<i>Other acts of destruction</i>	

Assistance for the necessary cleanup after a disaster occurs:

ORGANIZATIONS and WEB SITES

(Whenever you go online, be sure you have your parent's permission first.)

Centers for Disease Control and Prevention

<http://www.cdc.gov>

environmental Protection Agency

<http://www.epa.gov>

national Institutes of Health

<http://www.nih.gov>

U.S. Department of Health and Human Services

<http://odphp.osophs.dhhs.gov>

U.S. Public Health Service Commissioned Corps

<http://www.usphs.gov>

U.S. Department of Health and Human Services

<http://www.hhs.gov>

World health Organization

<http://www.who.int>

PUBLIC HEALTH WORKBOOK

Notes



APPLICATION FOR MERIT BADGE

Name: _____

Address: _____

City: _____

State: _____

Is a registered _____ Boy Scout,
 _____ Varsity Scout,
 _____ Venturer,

of _____ No. _____
Troop, team, crew, ship

District: _____

Council: _____

MERIT BADGE UNIVERISTY

Merit Badge: **Public Health**

Counselor: _____

Address: Overland Trails Council

PO Box 1361

2808 O'Flannagan

Grand Island, NE 68802-1361

Phone: 308-382-3717

email: mbuotc@yahoo.com

and is qualified to begin working for this merit badge and has completed the following pre-requisite requirements:

SECTION A PRE-REQUISITE REQUIREMENTS

Requirement No. and letter	Date of Approval	Counselor Initial	Requirement No. and letter	Date of Approval	Counselor Initial
6					
8					

The applicant has personally appeared before me and demonstrated to my satisfaction that he has met all pre-requisites requirements for the above stated merit badge and is ready to attend his assigned MBU class.

Signature of Unit Leader _____ Date _____

SECTION B APPLICANTS RECORD

Requirement No. and letter	Date of Approval	Counselor Initial	Requirement No. and letter	Date of Approval	Counselor Initial
1					
2					
3					
4					
5					
7					

The applicant has personally appeared before me and demonstrated to my satisfaction that he has completed all requirements in **SECTION B** above for the

Merit Badge: **Public Health**

Name of Counselor: _____

Signature of Counselor _____ Date _____

SCOUT INSTRUCTIONS

- Complete your name, address, city, unit type & number, district, & council on the Application for Merit Badge.
- Your unit leader must sign the Application for Merit Badge before attending class.
- All other information is already printed on the Application for Merit Badge; please make sure all information is correct.
- The merit badge counselor is registered & approved for this merit badge and is on the MBU Counselor's List.
- Read the merit badge pamphlet.
- Attend the merit badge class.
- Always meet with your counselor along with a buddy (a Scout, friend, or parent)
- Have your merit badge worksheet with you when you attend class.
- **If the merit badge pre-requisites are not completed before class, you will not be able to complete the merit badge during this weekend event, you will have to follow up with your Unit's Advancement Chair when you return home**
- **PLEASE BE AWARE THAT SOME COUNSELORS WILL NOT ALLOW YOU TO ATTEND THEIR CLASS WITHOUT PRE-REQUISITES COMPLETED—CLASS CURRICULUM IS DEPENDENT ON PRE-REQUISITE WORK BEING COMPLETED!**

COUNSELOR INSTRUCTIONS

- Never meet alone with a Scout.
- Verify all information & merit badge name on Application for Merit Badge is correct.
- Sign your name on the line at the bottom of **"SECTION B APPLICANTS RECORD"**.