

San Jose Police Department
Bloodborne Pathogens & Aerosol Transmissible Diseases (2 Hours)
Expanded Course Outline

Module Goal: The students will review the concepts of Bloodborne Pathogens (BBP) and Aerosol Transmissible Diseases (ATDs) and how to integrate this knowledge into a law enforcement career.

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| Objective #1 | The students will be able to define and distinguish between BBP and ATDs. The students will be able to recite knowledge of the sources of exposure and methods of transmission. |
| Objective # 2. | Given a scenario, the student will work in a group and formulate the appropriate donning of personal protective equipment (PPE). |
| Objective # 3. | The student will be able to don PPE prior to giving aid for a simulated injury. The student will demonstrate or recite the proper level of PPE required. |
| Objective # 4. | The student will be able to demonstrate how to properly doff PPE and decontaminate themselves. |

I. Introduction / Course Content

A. Legal Issues

1. California OSHA Requirements (CA Code of Regulations Section 5193 & 5199)

II. Bloodborne Pathogens (BBP) 8CCR 5193

A. What is a Bloodborne Pathogen?

1. Bloodborne and Bodily Fluids
2. Pathogens vs. Non-pathogenic Exposures

B. Exposures

1. Occupational Exposures to Blood
2. Occupational Exposures to potentially infectious materials
3. Non-Occupational

C. Definitions

1. Blood
2. Bloodborne Pathogen
3. Contaminated Materials/Sharps
4. Decontaminated
5. Engineering Controls
6. Exposure Incident
7. Hand Washing Facilities
8. HBV (Hepatitis B Virus)
9. HIV (Human Immunodeficiency Virus)
10. Parenteral
11. Other Potentially Infected Materials
12. Regulated Waste
13. Universal Precautions
14. Work Practice Controls

D. Exposure control Program

1. Written Program
2. Exposure Determination

E. Methods of Compliance

1. Universal Precautions
2. Engineering Controls
3. Work Practices
4. PPE (Personal Protection Equipment)
5. House Keeping

F. Vaccination and Post Exposure Follow-Up

1. General
2. HBV Vaccination (Hepatitis B)
3. Post Exposure Follow-up
 - a. ID and Documentation
 - b. Blood testing
 - c. Post-Vaccine
 - d. Counseling
 - e. Evaluation of Illness

G. Communications of Hazards & Reporting

1. Labels and Signs
2. Information and Training
3. Reporting Procedure

H. Record Keeping

1. Medical Records (i.e. Initial Report and Follow-Up)

2. Training Records
3. Availability

III. Aerosol Transmissible Diseases (ATD) 8 CCR 5199

- A. What is an ATD?
 1. Diseases
 2. Transferred by aerosols fine solid or liquid particles
 3. Scope of Regulation
- B. 8 CCR 5199 Section (b)
 1. Definitions and Abbreviations
 - a. A ADT (Aerosol Transmissible Diseases)
 - b. ATP (Aerosol Transmissible Pathogen)
 - c. ATP-L (Aerosol Transmissible Pathogen-Lab)
 - d. All (Airborne Infection Isolation)
 - e. AirID (Airborne Infectious Disease)
 - f. AIIR (Airborne Isolation Infection Room)
 - g. CDC (Center for Disease Control)
 - h. CDPH (California Department of Public Health)
- C. The Regulation
 1. History
 - a. 1900s
 - b. 2003
 - c. 2004
 - d. Current information
 2. Risk Pyramid
 - a. Very High
 - b. High
 - c. Medium
 - d. Low
 3. Diseases
 - a. Droplet vs Airborne
 - b. Airborne Infectious Diseases
 - c. Droplet Diseases
 - d. Novel Pathogens
 4. Employers
 - a. Hospitals
 - b. Referring
 - c. Laboratories
 - d. Contact with Infected Animals
 5. Requirements
 - a. Written Exposure Control Program

- b. Employee Information
 - c. Job Classification
 - d. Procedures
 - e. Methods of Exposure Prevention
 - f. Source Control
 - g. Communication
 - h. Training
 - i. Record Keeping
 - j. PPE and Fit-testing
 - k. Surge Procedures
 - l. Engineering Controls
 - m. Sanitation and Cleaning
 - n. Work Practices
 - o. Vaccination
 - p. Precautionary Removal
6. Case Study
- a. Index patient
 - b. Police exposure
 - c. Fire Exposure
 - d. Hospital Worker Exposure
 - e. Notification Errors