

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.

- 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