

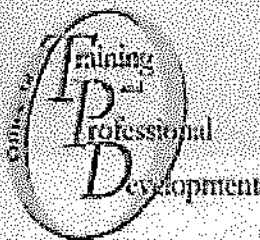
California Department of Corrections and Rehabilitation

On-the-Job Training (OJT) Module



Fire and Life Safety

BET ID: 11053476



FIRE AND LIFE SAFETY

ON-THE-JOB TRAINING

VERSION 1.0

COURSE CODE: 1102

Introduction

COURSE INFORMATION

Program	Course Code	Hour
OTJ	1102	36 min
OTPD Approved	07/22/2013	

Need for Lesson:

Fire is definitely a hazard to health and safety, especially where people are restricted in their movement by locked doors. Fire prevention has a very high priority in keeping the institution safe and healthy for staff and inmates.

Importance:

Suppression techniques and equipment associated with them, will provide you with the knowledge to prevent fires and provide safety in the workplace.



Learning Objectives:

1. You will identify the components of an institutional fire safety plan.
2. You will identify your responsibilities for fire safety preparedness in your work area.
3. You will identify methods for achieving fire prevention goals in your institution.



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Fire Theory

Components of Fire:

1. **Oxygen**—A fire may burn with an oxygen concentration of as little as 16%
2. **Fuel**—Carbon-based materials such as wood, plastic and synthetic material provide fire fuel
3. **Heat**—Releases vapors from a fuel and helps sustain combustion

When one of these elements are removed, the fire will go out.



Toxic Gases:

Carbon Monoxide: leading cause of death in fires

Carbon Dioxide: Colorless and odorless; reduces oxygen; increases heart rate

Hydrogen Cyanide: Colorless, smells like bitter almond; deadly

Hydrogen Chloride: Colorless and odorless; extremely deadly

Classes of Fire and Extinguishing Methods:

1. **A-Combustible:** Use water, foam, dry materials or a fire extinguisher
2. **B-Flammable Liquids:** Smother and fire extinguisher
3. **C-Electrical Wires and Overheated Equipment:** Remove electricity, then extinguish as a Class A or B
4. **D-Combustible Metals:** Apply Metal X or dry sand

CLASSES OF FIRES	TYPES OF FIRES	PICTURE SYMBOL
A	Wood, paper, cloth, trash & other ordinary materials.	
B	Gasoline, oil, paint and other flammable liquids.	
C	May be used on fires involving live electrical equipment without danger to the operator.	
D	Combustible metals and combustible metal alloys.	



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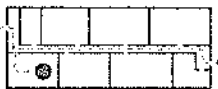
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Instructor Qualifications

Assigned instructors must have a minimum of three years full-time institutional experience and completed a basic training course in the techniques of training, or must be T4T certified trainers.

"THE WARDEN OF EACH FACILITY SHALL HAVE A FIRE SAFETY PLAN WHICH GIVES DIRECTION AND INSTRUCTION TO EMPLOYEES ON WHAT TO DO BEFORE, DURING AND AFTER A FIRE."

EVACUATION PLAN



IN CASE OF FIRE USE STAIRWAY FOR EXIT
DO NOT USE ELEVATOR

YOU ARE HERE
EVACUATION ROUTE

REFER TO CCR, TITLE 15,
SECTION 3302



Fire Safety Plan

Preparedness:

Pre-planning, training, employees understand their roles

- Conduct regular visual inspections; report damaged or missing fire suppression equipment
- Ensure fire exits in your area are clearly marked and clear of obstructions.
- Know emergency phone numbers: ensure numbers are on the phones
- Ensure cleaning supplies and chemicals are properly stored and identified

Locate the following pieces of equipment and know how to use them:

- Fire hoses
- Extinguishers
- Fire blanket

Breathing apparatus

Recognize keys that unlock the emergency boxes by sight and feel.

Emergency Evacuation Plan includes:

- ♦ Evacuation diagram
- ♦ Procedures for disabled employees and inmates
- ♦ Evacuation procedures



Note: All personnel should be at least 50 feet away from buildings

- ♦ Unobstructed exit routes
- ♦ Quarterly fire drills

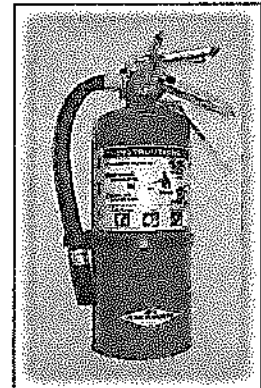
Eliminate electrical hazards and ensure cleaning supplies and other flammable materials are stored in compliance with the Material Safety Data Sheet (MSDS).

Prevention:

- Isolate or separate hazards to avoid fires
- Prevent dangerous acts before they cause a fire

Suppression:

- Knowledge of various types of fire extinguishers
- Locations of fire extinguishers
- Proper use of fire extinguishers



Fire Prevention Methods

Cell, dorm and area searches/Inspect for Electrical Hazards/Maintain Good Housekeeping:

- Confiscate contraband
- Limit or remove combustible property
- Inspect common areas
- Ensure sprinkler heads are not obstructed
- Inspect for overloaded circuits/appliances
- No unauthorized electrical appliances
- Ensure appropriate clearance of electrical panels
- Clean up debris, trash and clutter
- Read MSDS

- Ensure proper storage of flammables, chemicals, equipment, etc.

IMPORTANT!!! Routine fire inspections are conducted in all areas of the facility by fire personnel.

- Fire Chief will provide notice of hazard for non-compliance
- Correct deficiencies immediately



Fire Emergency Procedures

- ◆ Refer to DOM, Section 52019.18
- ◆ Activate Personal Alarm
- ◆ Preserve as a crime scene

Reporting Fires:

Who is responsible for reporting fires? *Everyone!!!*

Notify the fire department and report the following information:

- Exact location, extent of fire and amount of smoke
- Action(s) being taken
- Disturbances (i.e., riot, fight, etc)

Minor Fires: Small trash cans, small appliances, isolated Class A materials



- Contact supervisor or plant operations
- Identify proper suppression device
- Evacuate, if necessary
- Identify suspects
- Once fire is out, ventilate area

Major Fires: Kitchen Grease, cell or dorm area, vehicle, industrial, structural or a minor fire when initial suppression fails



- Isolate fire; get medical attention
- Preserve area as a crime scene
- Contact supervisor and/or plant operations
- Evacuate and account for all occupants in the area
- Identify suspects
- Once fire is out, ventilate area

Fire Extinguishers

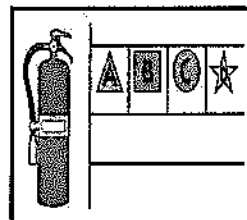
ABC: Used for Class A, B and C fires

Halon: Used for Class B or C fires: used for computers and delicate electronic instruments

Carbon Dioxide: Used for Class B or C fires: contains carbon dioxide: does not leave residue

Pressurized Water: Used on all Class A fires: not used on Class B, C or D fires

Fire Hose: Used on Class A fires: not to be a substitute for sprinkler systems, hose or other fire fighting devices



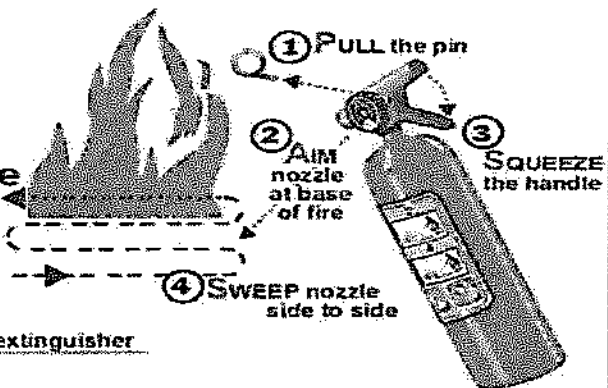
"EVERY FIRE MUST BE REPORTED. REGARDLESS OF HOW MINOR. FAMILIARIZE YOUR RESPECTIVE FACILITY'S POLICY AND PROCEDURE ON FIRE EMERGENCY NOTIFICATIONS."



Operate a Fire Extinguisher

To operate an extinguisher:

Pull
Aim
Squeeze
Sweep



Use the correct extinguisher

Conclusion

This lesson provided a basic knowledge of fire and extinguishment theory, fire prevention and fire suppression. It also provided information on the staff's responsibilities in fire prevention, suppression and reporting.

Be sure to familiarize yourself with the exit and evacuation signs. Know where the keys to all of the fire equipment are located and how to get them open, even if there is a fire in the area with smoke.

Routine cell, dorm and area searches keep the fire hazards at a minimum.

To ensure that you know what fire extinguishers are to be used for a fire, know the classification or type of fire. If you chose the wrong method, you can cause a larger, more dangerous fire. Preservation of life is the MOST important. Property is secondary. Evacuate if the fire is already out of control.

References

1. California Code of Regulations, Title 15, Sections 3302(a), 3300 and 3303
2. California Department of Corrections and Rehabilitation, Department Operations Manual (DOM), Sections 52090.1, 52090.4, 52090.4.4-4.4, 52090.5; 52090.6.1; 52090.7.1-7.3; 52090.9; 52090.13; 52090.18 and 52090.19
3. Health and Safety Code Section 13146.1

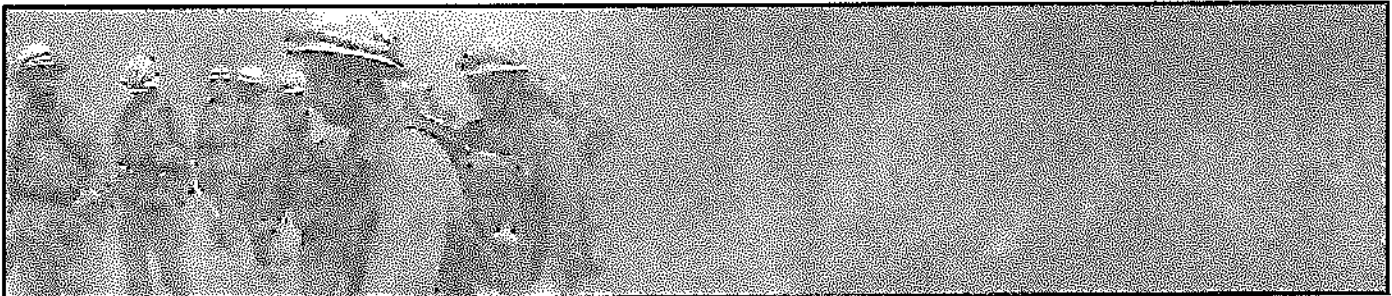
Resources

For more information:

- Facility Fire Department
 - Fire Chief
 - Fire Emergency Plan

Other resources:

- CalFIRE: <http://www.fire.ca.gov>
- State Fire Marshal: <http://osfm.fire.ca.gov>
- CDCR Conservation (Fire) Camps: http://www.cdcr.ca.gov/Conservation_Camps/index.html



Fire and Life Safety Quiz

By my signature, I acknowledge that I have read, understand, and agree to the policies and procedures as defined in the Fire and Life Safety Module that I received. Please contact your immediate supervisor if you have additional questions.

PERNR # _____

Signature: _____

Print Name: _____

Date: _____