## **Electrical Safety**

February 23, 2022

Presented by: Connie Biggs, Oregon Office of State Fire Marshal

Fire Safety Webinar Series



#### **Upcoming Events**

- Next Webinar March 9, 2022
  - Topic: Fire Safety Children's Books <a href="https://www.eventbrite.com/e/osfm-webinar-fire-safety-childrens-books-tickets-269948121097">https://www.eventbrite.com/e/osfm-webinar-fire-safety-childrens-books-tickets-269948121097</a>
- NFPA 1035: Youth Fire Intervention Specialist Training March 15 & 16 2022

https://www.eventbrite.com/e/nfpa-1035-youth-fire-intervention-specialist-tickets-261177387597

- National Electrical Safety Month May, 2022
  - Raising awareness of how to avoid electrical hazards https://www.esfi.org/program/national-electrical-safety-month/



# **Electrical Safety – More Than Fire Prevention**

Approximately 1,000 people die from electrical injuries in the United States each year.

Another 30,000 are hospitalized with non-fatal electrical injuries.

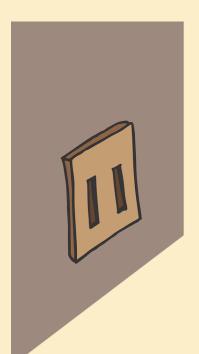


#### **Oregon Fire Statistics**

- 2,884 Residential Structure Fires:
  - 206 Electrical Malfunction / Distribution
- Most Frequent Known Fire Causes:
  - Cooking 20%
  - Heating 17%
  - Intentional 7%
  - Smoking 4%



Overloaded electrical outlets and sockets!



• Grounded plugs are modified to fit non-grounded receptacles.

• Using a higher rated bulb in a lower rated lamp causes excess heat and too much power for the lamp wiring.





- Misuse of extension cords and power strips!
  - High capacity appliances should always be plugged into the wall.
  - Extension cords and power strips can be overloaded.
  - Extension cords should never be connected together.
  - Extension cords are rated for indoor and/or outdoor use.





Using frayed or broken cords!

- Exposed wires may cause arching that will start a fire.
- Cords get damaged when they run under rugs or carpets.
- Pinched or coiled wires may cause excessive heat.
- Electrical tape is not always a safe fix.





• Unattended or unmaintained appliances!

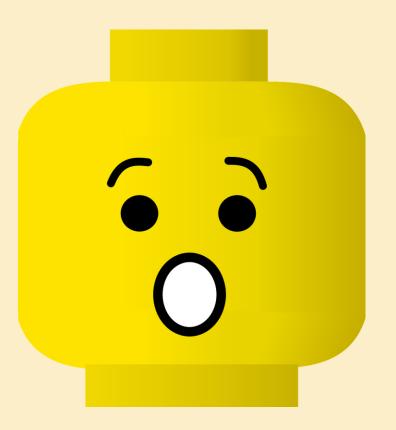
• Follow manufacturer's recommendations for storage and cleaning of all appliances.

- Appliances are used for an off-label application.
- Older heaters have exposed elements and no auto shut-off feature.
- Heaters are rated for indoor and/or outdoor use.





- Accessible to children!
  - Kids are curious!
  - Caregivers aren't aware of the danger.
  - Caregivers aren't aware of child-proofing options.





#### Smart Homes and DIY

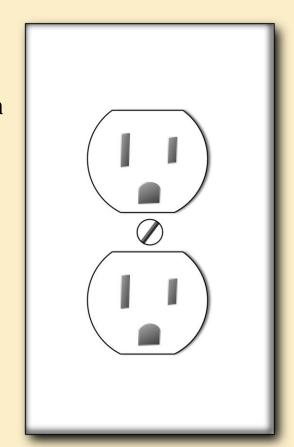
- Smart Homes require an electrician, while smart applications do not.
- Interconnectedness causes a cascade effect if something does go wrong.
- Homes today have more electricity running 24/7 than was anticipated.
- YouTube does not take the place of years of electrical training.





#### Safety Messages

- Use an appropriate electrical outlet or light bulb receptacle.
- Plug appliances directly into the wall, and do not overload extension cords and power strips. Unplug appliances that are not in use.
- Check cords for fraying or cracking replace as needed.
- Learn an extension cord capacity by checking the tag no tag? It's time to replace.
- ALWAYS keep a 3-foot clearance around a heat source.
- Childproof electrical receptacles.
- Consult with a licensed electrical contractor for any household upgrades.





#### Why focus on electrical safety?

To avoid electrically related fires, fatalities, injuries, and property loss.



#### **Contact Information**

 Connie Biggs, Training & Development Specialist Oregon Office of State Fire Marshal Connie.Biggs@osp.oregon.gov

• Fire and Life Safety Education Hotline osfmce@osp.Oregon.gov

