



PEA RIDGE FIRE DEPARTMENT

CORE COMPETENCY DRILL



Fire Dynamics—Fire Triangle

DESCRIPTION AND EXPECTED PERFORMANCE: The CO shall lead this training and will ensure that each member is able to accurately describe the Fire Triangle and explain the chemical reaction.

Length: 2 HOURS

REFERENCE: PRFD S.O.G.s for tactics and strategy for fire behavior in firefighting in accordance with NFPA standard 1001, current edition.

Equipment, Props, Information or Other Resources Needed: PowerPoint presentation on Fire Behavior may be utilized, otherwise a white board, classroom or a comfortable area with table and chairs.

INSTRUCTIONS FOR THIS CORE COMPETENCY DRILL

Fire Behavior Video Link: https://www.youtube.com/watch?v=U9HgTQsH_m4&t=7s

Oxygen, Heat, and Fuel

Discuss the different components of the Fire Triangle. Next, review each of the discussion topics below:

- * Building Construction and Materials
- * How may Fire move throughout a Residential Structure
- * How may Fire move throughout a High Rise Structure
- * What are the "UNKNOWNs" in a structure fire in relation to the Fire Triangle
- * How may tactics affect control of the Fire Triangle
- * What type of extinguishing agents exist, what is the most popular, and what tools would we utilize to access the fire
- * Is the Fire Triangle and Fire Behavior and/or the science important for you to know
- * How often should a company officer evaluate tactics in fire behavior if no headway is being made in controlling the fire

Chemical Chain Reaction

