

Broomall Fire Company

**Cadet Firefighter
Program**

Sample Curriculum

Night #1: Orientation and Fire Service History

- Orientation to the Broomall Fire Company Cadet Bylaws and Standard Operating Procedures.
- History of the Broomall Fire Company and Fire Service
- Fire Service Culture
 - Integrity
 - Moral Character
 - Work Ethic
 - Pride
 - Courage
- BFC Special Events
 - Public Education
 - Carnival
 - Fourth of July
 - Housings
- BFC Personnel and their Duties

Night #2: Firefighter Safety and Health

- Uniform distribution
- Protective gear
 - Helmet
 - Eye protection
 - Leather gloves
- Healthy living and exercise
- Safety on the apparatus
- Tool and equipment safety
- BFC safety guidelines
- Hands on activity – proper wear of safety equipment, apparatus safety and setting up a work zone

Night #3: The Science of Fire

- Physical and chemical changes
- Modes of combustion
- Fire triangle
- Fire tetrahedron
- Transmission of heat
 - Conduction
 - Convection
 - Radiation
- Fuel
 - Gaseous fuel
 - Liquid fuel
 - Solid fuel
- Products of combustion
- Classifications of Fires
- Hands on activity – fire extinguisher

Night #4: Fire Development in a Compartment

- Incipient stage
- Growth stage
 - Thermal layering
 - Isolated flames
 - Rollover
 - Flashover
 - Alternative pathway
- Fully developed stage
- Decay stage
 - Consumption of fuel
 - Limited ventilation
 - Back draft

Night #5: Apparatus Orientation

- Overview of BFC apparatus
- Overview of equipment on apparatus
- Qualification sheets
- The differences between Engine Company, Rescue Company and Truck Company

Night #6: Evaluation Night and Parent Visitation

- Apparatus scavenger hunt
- Demonstration of the proper use of fire extinguishers
- Presentation of Cadet Helmet