**ESSENTIALS OF FIREFIGHTING**

*Instruction by the Kansas State Firefighters Association*

The following sessions are offered to provide participants with basic firefighting skills necessary to perform safely and effectively in emergency situations.

**Students should provide their own bunker gear and SCBA for these sessions.**

*Note: The Essentials classes are offered throughout the day – twice in the morning and twice in the afternoon.*

### PERSONAL PROTECTIVE EQUIPMENT/SCBA

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After completing this course the firefighter will be able to safely use, clean, recharge, inspect and store the SCBA. In addition, the firefighter will be instructed in search techniques and will demonstrate those techniques with the SCBA and full gear inside a smoke-filled structure. Also taught will be basic information on personal protective equipment for the firefighter.

→ PPE & SCBA required.

### GROUND LADDERS, ROPES & KNOTS

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Learn the importance of proper ladder practices. Learn to work by teamwork to lessen mistakes and injuries. Ropes are sometimes a forgotten asset. Learn or re-learn good working knots common to the fire service. Proper usage of ropes can assist in creating barriers to keep people out and in hoisting tools.

→ PPE required.

### FORCIBLE ENTRY/FIREFIGHTER SAFETY AND SURVIVAL

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This course goes over common fireground mistakes and things that are injuring and killing our firefighters. Response, stations and fireground activity are all covered as well as health and safety and fitness. After completing this session, the student will be able to use appropriate forcible entry equipment.

→ Full PPE & SCBA required.

*Fit Testing required for this class.*
VENTILATION

F May 29  S May 30
8:00am-10:00am  8:00am-10:00am
10:00am-Noon 10:00am-Noon
1:00-3:00 pm 1:00-3:00 pm
3:00-5:00 pm 3:00-5:00 pm

Ventilation is a key fire attack tool. This course allows the student to better understand the mechanics of ventilation with emphasis on positive pressure ventilation techniques and power equipment. Practical applications are used during the course.

→ PPE & SCBA required.

HAND LINES/HOSE DEPLOYMENT

F May 29  S May 30
8:00am-10:00am  8:00am-10:00am
10:00am-Noon 10:00am-Noon
1:00-3:00 pm 1:00-3:00 pm
3:00-5:00 pm 3:00-5:00 pm

This is a hands on course designed around real world fireground operations. Students will get hands on practice with many different hose loads and hand line deployment; handling 1 ¾ - 2 ½ with minimum manpower. Students will get the opportunity to learn different techniques on advancing charged lines through structures and around the firegrounds.

→ PPE & SCBA required.

HALF-DAY AND ONE-DAY SESSIONS

PRINCIPLES OF STRUCTURAL FIREGROUND TACTICS   Th May 28 8:00am-Noon
Repeated on  F May 29  6:00-10:00pm

Instruction by Wichita Metro Fools of Oz

As firefighters progress through their career, they are taught many different concepts and skills. Sometimes, it is difficult to tie it all together and obtain a global perspective about the fireground. Principles of Structural Fireground Tactics is designed to help firefighters to understand the big picture of fireground tactics and how the skills they’ve learned are applied to the overall goal. This class will not only help newer firefighters get an overall understanding of fireground tactics but also help experienced members hone their skills applying basic incident priorities in their decision making model. This is an interactive class with multiple scenarios encouraging student involvement.

STREETWISE FUNDAMENTALS OF AERIAL DEPLOYMENT   Th May 28  1:00-5:00pm
Repeated on  S May 30  6:00-10:00pm

Instruction by Lt. Mark Misek, Wichita Metro Fools of Oz

For many of us who are assigned aerial apparatus, we are trained how to properly set the aerial, following manufacturers recommendations, in a parking lot or the back slab of the firehouse. But what happens when we have to set the apparatus on real streets, with real obstructions, real victims, and real fire? This class is designed to cover some concepts used on every fireground and some of the common pitfalls associated with rear mounted ladder towers (aerial platforms). Furthermore, we will discuss how your
intended purpose affects operation (victim rescue, roof access, water tower, etc). This class starts with a short lecture followed by actually deployment of the apparatus at various locations with real world challenges.

COMMANDER’S INTENT: OPERATIONAL
READINESS TO COMPLETE THE MISSION Th May 28 1:00-5:00pm
Instruction by Battalion Chief Sid Newby, Wichita Metro Fools of Oz
The focus of this class is to illustrate the importance of a commander’s expectation on emergency scenes. Expectations or ‘Basics’ were developed into tenets that will be presented to assist fire officers prepare themselves for stressful emergency scene conditions. The small tactical units (fire companies) are the linchpins to a successful emergency scene operation. The importance of synchronized small unit tactics following the commander’s intent is critical to a successful mission on an emergency scene. Every emergency operation outcome is the result of many small unit outcomes. The key is for each small tactical unit (engine, truck, RIC, search companies) to perform in a predictable way. If one small unit fails to perform their task the whole operation could have a negative end result and change the strategy of the commander. The application of this information is to provide proven basics for fire officers to be successful during emergency operations through interactive discussions and video demonstration.

HAZARDS ASSOCIATED WITH ELECTRICITY: A LOOK AT OVERHEAD AND UNDERGROUND POWER LINES
Instruction by Westar Energy F May 29 8:00am-Noon
Repeated on F May 29 1:00-5:00pm
Westar Energy will provide a presentation concerning the hazards associated with high voltage overhead and underground power lines. This presentation will discuss the effects of electricity on the human body. You’ll learn why to be observant for downed power lines and steps you can take to protect yourself and others from this danger.

With the aid of a “Hot Demonstration Trailer” energized at 7,200 volts, Westar Energy will review and demonstrate real life situations to help you incorporate the observance for possible electrical hazards during responses to emergency scenes.

There is a special emphasis on those organizations who respond to emergencies involving contact with, or down power lines.

RAPID INTERVENTION F May 29 8:00am-5:00pm
Instruction by Wichita Metro Fools of Oz
A downed firefighter is every department’s worst nightmare. One thing history has taught us is that Rapid Intervention is not rapid, having crews trained to accomplish this mission can be the difference between a close call and tragedy. Rapid Intervention demands that your crews be proficient in every aspect of firefighting, from thermal imager use, to proficient truck work, to being able to think and improvise under pressure. This class will rotate crews through several skill stations and culminate with a real time scenario at the end to test your crew’s mettle.

→ Full structural turnout gear and SCBA required to attend
ANHYDROUS AMMONIA  F May 29 8:00am-Noon
Instruction by Rusty Greene, Kansas Fire & Rescue Training Institute, University of Kansas
Anhydrous ammonia, NH₃, is widely used in agriculture and industry. Penetrating vapors from this gas are suffocating and can lead to severe health problems, even death. This exciting training video outlines an active program of safety and inspection to prevent accidents in the workplace and during emergency response.

Topics covered include:
- Hazard properties
- New DHS reporting and security requirements
- Up-to-date standards for containers
- For risk management planning: new information on toxic endpoints for anhydrous ammonia
- Illegal use of anhydrous ammonia in meth labs
- DOT and NFPA placards and labels
- Air monitoring and ventilation
- Special problems posed by enclosed spaces
- Newest information about controlling vapors after spills
- Use of water fog spray, carbon dioxide and foam to control vapors
- Protective equipment used in emergency response

CHLORINE EMERGENCY RESPONSE  F May 29 1:00-5:00pm
Instruction by Rusty Greene, Kansas Fire & Rescue Training Institute, University of Kansas
This training program includes information about chlorine’s use as a WMD in Iraq; studies DHS warnings about a worst case scenario involving chlorine; updated information about placarding and labeling; an extensive case study of the Graniteville, SC train derailment and chlorine release of 40 tons of gas.

Topics covered include:
- Vapor behavior
- Toxic effects of chlorine
- Use of Level A and Level B ensembles during response activities
- Methods of leak detection
- Container design
- Chlorine Institute A, B and C kits
- Use of water to cool containers and for vapor control

GRAIN EXPLOSIONS: SCENE INVESTIGATION AND PRESERVATION  F May 29 1:00-5:00pm
Instruction by Lamar Shoemaker, State Fire Marshal’s Office
This course will cover the response and investigation of grain elevator explosions. Topics will include scene safety, definition and identification of terminology associated with explosions, cause determination, identification of the differences between fires and explosions, blast wave directional marking, pressure waves, potential acts of terrorism, structural characteristics, and potential ignition sources. There will be several case studies discussed including images of past events.
VEHICLE EXTRICATION  S May 30  8:00am-5:00pm
Instruction by the Kansas State Firefighters Association
Course includes vehicle preparation, vehicle placement at the scene, extrication techniques, gaining access, patient care, and disentanglement. Safety will be stressed.
→ Students must wear full protective clothing in the training area excluding SCBA.
Limit 15

TRUCK COMPANY OPERATIONS  S May 30  8:00am-5:00pm
Instruction by Wichita Metro Fools of Oz
If you ride an understaffed truck this class is for you. Attendees will spend the morning rotating through skill stations in basic search, rescue, forcible entry, and ventilation. Each of these skill stations will not only provide a review of basic skills, but instructors will take the time to show and recommend tool selections to be carried that give the attendee the most “bang for their buck” on the fireground. In the afternoon attendees will be broken into crews and will operate as first and second due trucks in real time operations utilizing the suggested tool and riding assignments presented during the skill stations.
→ Required Equipment to Attend: Full structural turnout gear and SCBA

GRAIN ENGULFMENT RESCUE  S May 30  8:00am-5:00pm
Instruction by Ed Morrison, Kansas Fire & Rescue Training Institute, University of Kansas
Students gain knowledge and skills required to perform a grain engulfment rescue. Students should have a basic knowledge of confined space rescue techniques as well as knowledge of lock-out/tag-out procedures as prescribed by OSHA and other regulations. Removal/rescue from grain bins and hoppers, grain bin cutting procedures, entrapment prevention and hazards of working in and around grain storage facilities are addressed in this course. Removal of victims from locations requiring high angle rescues is not covered in this course due to the advanced nature of this training. Contact the Kansas Fire & Rescue Training Institute for more information regarding Rope Rescue 1 & 2 courses that will meet high angle rescue training needs.

Recommended for Kansas firefighters and Kansas grain facility employees who may be responding to grain engulfment emergencies.

→ Attendees are required to provide their own personal protective equipment: steel-toed work boots, leather work gloves, hard hat, and eye protection (shields, safety glasses or goggles).
EVENING SESSIONS

WEATHER 101  Th May 28  6:00pm-10:00pm
Instruction by Chance Hayes, National Weather Service Wichita
This class is designed to provide as much information as possible to all emergency responders who not only perform weather spotting but who have to work in severe weather conditions year round. The instructor will cover all types of warnings and watches along with what they each mean to the citizens and what they should mean to emergency responders and their respective agencies. Question and answer session throughout the class.

GETTING YOUR MIND RIGHT  Th May 28  6:00pm-10:00pm
Instruction by Firefighter Will Holt, Fools of the Jungle
What if we knew exactly what emergencies we were going to respond to today? How would that affect our level of preparedness? This class will help students to be proactive and better prepare themselves for success in any emergency. This includes not only mental and physical preparation but also tips and tricks on equipment preparation to better facilitate success on all types of emergencies.

HANDS-ON ACTION NIGHT  F May 29  6:00pm-10:00pm
AND  S May 30  6:00pm-10:00pm
Instruction by the Kansas State Firefighters Association
Friday: Burn trailer
Saturday: LP Props
Coursework begins in the classroom to learn the concepts and practices associated with burns. Safety and participant expectations are discussed before heading to the firegrounds. Students must attend the lecture to be eligible to participate in the evolutions.
→ Full PPE & SCBA required.
Fit Testing required for this class.

WATER SUPPLIES FROM THE NOZZLE  S May 30  6:00pm-10:00pm
BACK
Instruction by Captain Darren House, Sedgwick County F.D. # 1
“Water supplies from the nozzle back” takes a hard, informed look at realistic water flows achieved in tanker/tender operations. Covering the initial attack from an engine, to being supplied with a tender, or port-a-tank operations. This class is intended for all levels of fire service personnel. Fire Fighters need to know the exact flow of all lines pulled on a fire. The company officer has to know where first water is to be applied and perform nozzle discipline. Chief officers need to understand that changes in water flow need to be approved by the water supply officer. Yes, this is a water supply class. It teaches how to use the water on scene in an educated manner. We will cover ways to determine what YOUR apparatus can do. After attending, you will go home with multiple training opportunities to find achievable flow rates relative to your department. Scenarios will be performed using various types of water supply from mobile sources. Flow meters will be used to illustrate water use. Uses of different types of appliances will be showcased. Success on the fire ground is ensured only through the relentless pursuit of perfection at the task level.
Performed by the S.E.K. Fire Chiefs

The Respiratory Protection OSHA Standard 1910.134 requires that those using respiratory protection, self-contained breathing apparatus (SCBA) be fit tested annually, and a medical evaluation or screening be performed. The Kansas Fire & Rescue Training Institute adheres to this federal mandate by sponsoring fit testing and furnishing the resources for performing these tests. The medical evaluation or screening required by OSHA and the Kansas Department of Labor should be performed by local medical health professionals to meet the requirements of fit testing.

The S.E.K. Fire Chiefs Association will provide this service for everyone taking a Kansas Fire & Rescue Training Institute class requiring SCBA. Everyone to be fit tested must be clean shaven - NO goatees, beards and/or long sideburns - NO EXCEPTIONS.

Fire department chiefs may sign off on an individual firefighter’s registration form if the firefighter has been fit tested within the last 12 months.

Testing is offered from 1:00-5:00 pm on Thursday, Friday and Saturday; and each test takes about 15-20 minutes.