

Technical Track

1330-1500

Thursday, May 13

Workshop Tech #1, Technical SAR- Meeting Room 5

Planning Your Education in Technical Rescue: “Assuring Your Time and Money are Well Spent”

James Russell McCullar II, City of Batesville Fire Department

This presentation will teach both beginning and intermediate students about the progression of learning in technical rescue. It will emphasize areas of learning where pre-requisite knowledge and training is essential. The concept of the NFPA 1670 training matrix will be introduced. Documents referenced will include the latest revisions of *NFPA 1006: Standard for Rescue Technician Professional Qualifications 2008* and *NFPA 1670: Standard on Operations and Training for Technical Rescue Incidents 2009*. The presentation will cover how these documents can be used to measure training and shop for training vendors. Issues of distinguishing between the two documents and their application for institutional / course accreditation will be covered. FEMA’s position of *Rescue Specialist* will also be discussed as it pertains to student education and the comprehensive knowledge required to be able operate safely and successfully in today’s disaster environments. The rescue disciplines discussed will include Emergency Medicine, Hazardous Materials, Rope Rescue, Confined Space Rescue, Trench Rescue, Surface Water Rescue, Vehicle / Heavy Machinery Extrication, Structural Collapse Rescue, and Wilderness Search and Rescue.

Workshop Tech #2, Technical SAR- Meeting Room 5

TBA

TBA

TBA

Friday, May 14

Workshop Tech #3, Technical SAR – Meeting Room 5

A Review of Highlines and Tensioned Lines and Their Application to the Wilderness SAR and Urban SAR Environments

James Russell McCullar II, City of Batesville Fire Department

Highlines are the upper limits of the Rope Rescue Technician training. Many detractors question where this skill fits into the real world. What instances can highlines be utilized to facilitate USAR and Wilderness SAR? This session will review the application and construction of highlines. Students will walk away with a better understanding of where to deploy these tools for best results.

This advanced technique is widely considered one of Rope Rescue’s most perishable skill sets. A review of modern techniques in highline construction will include tensionless anchors, tensionless cheaters, load-release hitches, single track, and twin track construction. Attending this session should enhance student’s previous training in the construction of highlines.

After lunch, students who attend the morning session are eligible to attend a skills lab in the construction of highlines. On the ground and in a safe environment, students will practice assembly techniques and build models with actual rescue equipment. This review session should help students, which have received training in tensioned lines, build confidence and refine their techniques.

1100-1200

Workshop Tech #4, Technical SAR- Meeting Room 5

Mechanical Advantage: Does Your Team Really Pull Its Weight? – Part I

Craig Nash, Tupelo Fire Department

James Russell McCullar II, City of Batesville Fire Department

For the Rescue Team, this session will take mechanical advantage to the next step. Utilizing tension-dynamometers, students will learn at what point mechanical advantage becomes inefficient. This is the difference between theoretical MA and actual MA. Pulleys usually exert a ten-percent friction coefficient on MA. Then these forces become multiplied.

Methods of calculating and counting MA will be discussed along with more advanced methods of compounding systems. After this course, students will be more aware of tricks-of-the-trade and what their teams can actually move using rope rescue hauling systems.

After lunch, students who attend the morning session are eligible to attend a skills lab in the construction of hauling system mechanical advantages. On the ground and in a safe environment, students will practice assembly techniques and build MAs with actual rescue equipment. Individuals and their team members will have an opportunity to learn what they can haul individually and as team on 1:1, 2:1, 3:1, 4:1, etc. Students will leave with a more full understanding of what their teams and equipment are capable of hauling.

1330-1500

Workshop Tech #5, Technical SAR- Meeting Room 5

Afternoon Technical Track Demonstrations

Craig Nash, Tupelo Fire Department

James Russell McCullar II, City of Batesville Fire Department

(see description from Tech #3 and 4; must attend to participate)