



EMS Continuing Education

Courses & presentations available



The Speaker: Alex Wilson

- Live in south central Pennsylvania
- Information technology professional since 1988
- EMT / Fire fighter (career & volunteer) since 2004
- Eagle Scout, support environmental stewardship
- Married to Dawn since 1996





Alex's EMS/Fire Industry Background

- Entered in 2004
- Nationally certified fire fighter, PA EMT and instructor
- Part time EMT for several busy EMS services in area
- Volunteer fire fighter in my home town
- Have presented at international and regional conferences



Alex Information Technology Background

- Entered in 1988
- Sales, support, technician, systems administrator, applications developer, instructor, consultant, project manager, IT Director / CTO level work
- Business process improvement, strategy planning, project management, general business consulting
- Specialize in collaborative computing

I help businesses select and implement technology solutions that result in business growth, lower costs, improved customer satisfaction, or improved productivity.



Degrees & Certifications

- College Degrees
 - AAS in Business Administration
 - AAS in Fire Science
- Technical Certifications
 - CompTIA Network+
 - APC Design Professional
 - Microsoft Certified Professional



Degrees & Certifications (cont)

- EMS / Fire Certifications
 - PA EMT #166089
 - PA BVR-Technician #197736
 - ITLS, PEPP, ABLIS
 - ProBoard Fire Fighter 1 & 2, Fire Instructor 1, Fire Officer 1, HazMat Operations

- EMS Instructor Certifications
 - PA EMT Instructor
 - International Trauma Life Support
 - American Red Cross: CPR (all levels), ER
 - VFIS Emergency Vehicle Driver Training



Availability

- Times:
 - Nights and weekends best
 - Days are possible

- Locations:
 - PA: York, Lancaster, Adams, Dauphin, Cumberland Counties
 - MD: Baltimore, Harford, Carroll Counties
 - Will consider other locations if time permits



Contact Information

Alex Wilson

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Vendor Certified Courses



American Red Cross

- Available to teach the following
 - CPR / AED for Professional Rescuers
 - CPR / AED for Laypersons
 - Emergency Responder
 - Full course or challenges available
- Can provide manikins (adult, child, infant), AED trainer, and other supplies



International Trauma Life Support (ITLS)

- Certified ITLS instructor (Basic)
- Can provide realistic moulage supplies for patient actors
- Available to lecture or conduct evaluations
- Will help you connect with a sponsoring organization to have a class conducted at your location if needed



VFIS Driver Training

- Certified by VFIS to present:
 - Emergency Vehicle Driver Training (full course)
 - 16 hours (8 hours lecture, 8 hours drive time)
 - Requires a large parking lot and 80-120 cones
 - Usually conducted as two evenings of lecture (or one full day) plus one full day for drive time
 - Dynamics of Emergency Vehicles (refresher)
 - 4 hours of lecture
 - Drive time on a parking lot can be added

Continuing Education Courses

Self Developed Courses





National Standard Curriculum

- Can prepare a course on any topic covered at the BLS level
- Will work with your medical director or management to ensure topics are covered to their satisfaction
- No charge for course development if I retain rights to materials
- About 3 months lead time required
- The following are already prepared courses that can be delivered immediately



Airway Management

- Course Number: 000297
- Length: 2 hours
- Credits: 2.0 Med / Trauma, 0.0 Other
- Key topics:
 - Recognizing difficult airway, managing it
 - Hands on practice with airway management

Recognize the difficult airway, review airway management techniques and protocols. Hands on practice with airway adjuncts, BVM technique, working with intubated patients, suctioning. Understand proper hyperventilation and the importance of tidal volume.



Epinephrine Auto Injector

- Course Number: 004124
- Length: 2 hours
- Credits: 2.0 Med / Trauma, 0.0 Other

- Key topics:
 - Review protocols for Epinephrine administration
 - Hands on practice with EpiPen trainers

This course is designed for BLS services that would like to carry EpiPens and have secured permission from their medical director to do so. The course supplements the national standard curriculum and acts as a refresher for those that have been through this particular module of training before.

Course focuses on indications, contraindications, protocol review, knowledge of dosing, and proper care of the patient experience an allergic reaction. The course reviews proper administration of an EpiPen Auto Injector. Hands on practice is part of this course.



Bloodborne Pathogens

- Course Number: 003057
- Length: 1 hour
- Credits: 1.0 Med / Trauma, 0.0 Other

- Key topics:
 - Recognize the threats
 - Proper prevention and decontamination techniques

This course provides the training required to meet OSHA requirements for bloodborne pathogen training as well as annual refreshers.



Burn Management for BLS

- Course Number: 002464
- Length: 2.5 hours
- Credits: 2.0 Med / Trauma, 0.0 Other

- Key topics:
 - Recognize and identify different types of burns
 - Apply proper treatment for various types of burns

We do not deal with burns every day. When they happen, we need to be prepared to handle our patient effectively in order to provide them the best chance of survival and a normal life. This course will review basic anatomy of the skin, burn classification, types of burns, and proper treatment. Emphasis will be placed on proper assessment and transport destination decision criteria. Hands on assessment of realistic burn scenarios will be used.

Class length is at least 2 hours. Actual length will depend on number of students going through practical stations.



CPAP for BLS

- Course Number: 004000
- Length: 2 hours
- Credits: 2.0 Med / Trauma, 0.0 Other

- Key topics:
 - Understand indications and contraindications for CPAP
 - Practice administration of CPAP

This course meets the requirements as set forth by the Department of Health for advanced education for BLS services that wish to carry CPAP devices. If your service has medical director approval to carry them, this course will educate your providers on how to assess the patient properly and properly apply CPAP devices.



Managing Limb Entrapments

- Course Number: 006236
- Length: 75 minutes
- Credits: 0.0 Med / Trauma, 1.0 Other

- Key topics:
 - Review all factors that need to be managed in a complex limb entrapment call
 - Review case study of an actual call

Limb entrapments are difficult calls. This course covers scene management, bleeding control options such as hemostatic agents and tourniquets, managing shock, making the decision to attempt to extricate versus amputate, and what resources you will need to manage the call either way. This course utilizes a case study on a real limb entrapment call then ended up becoming a field amputation. Case study includes pre-hospital and post-operative care to see how all the treatments enabled the patient to survive. The lessons learned from the case study help guide the lecture. The purpose of the course is to encourage participants to go back to their services and evaluate situations that might come up for which they do not have plans in place to handle. Participants are encouraged to involve their medical directors in pre-planning.



Pulse Oximetry for BLS

- Course Number: 005288
- Length: 1.5 hours
- Credits: 1.5 Med / Trauma, 0.0 Other
- Key topics:
 - Understand how to properly assess respiratory emergencies
 - Understand how to properly use a pulse oximetry device

The pulse oximetry unit can be a useful tool if properly used and not 100% relied on. This course emphasizes “treat the patient, not the monitor.” This course should cover all areas needed to get a BLS service approved by their medical director to use a pulse oximetry unit.



Pelvic Immobilization

- Course Number: 003382
- Length: 1.5 hours
- Credits: 1.0 Med / Trauma, 0.0 Other

- Key topics:
 - Properly assess pelvic injuries
 - Properly immobilize pelvic injuries using commercial and improvised devices

Pelvic injuries can be life threatening. This course teaches proper assessment and treatment of these types of injuries. Use of the SAM Sling is taught and practiced. We also review improvised options for stabilizing the pelvis for transport.



START Triage

- Course Number: 003558
- Length: 2 hours
- Credits: 1.5 Med / Trauma, 0.0 Other
- Key topics:
 - Understand the concepts of START triage and how to manage a mass casualty incident
 - Learn how to properly triage patients in a mass casualty incident

Managing an MCI can be nerve-wracking. This course teaches the student how to use the START method of triage and how to apply this technique in practical exercises. Students will go through hands-on exercises to practice the technique.



Street Drugs – Current Trends

- Course Number: 006212
- Length: 1.25 hours
- Credits: 1.0 Med / Trauma, 0.0 Other

- Key topics:
 - Recognize signs and symptoms of abuse
 - Understand popular drugs, terms, slang, intake methods

Everyday there are new options for kids to get “high”. The pot of the 60’s is nothing compared to the stuff these kids are toying with today. Learn about the signs and symptoms of abuse and what to do to help. Learn about the main drugs as well as the latest and greatest like K2, Spice, Salvia, Bath Salts, Jewelry Cleaner, etc.



Street Drug Awareness

- Course Number: 006212
- Length: 2.0 hours
- Credits: 1.0 Med / Trauma, 0.0 Other

- Key topics:
 - Recognize signs and symptoms of abuse
 - Understand popular drugs, terms, slang, intake methods

Everyday there are new options for kids to get “high”. The pot of the 60’s is nothing compared to the stuff these kids are toying with today. Learn about the signs and symptoms of abuse and what to do to help. Learn about the main drugs as well as the latest and greatest like K2, Spice, Salvia, Bath Salts, Jewelry Cleaner, etc.

This course will review all drugs past and present. Marijuana, cocaine, heroin, LSD, PCP, inhalants, meth, date rape drugs, ecstasy, peyote, mushrooms, prescription drugs, over the counter drugs, alcohol, and more.



Vitals are Vital

- Course Number: 005260
- Length: 2 hours
- Credits: 2.0 Med / Trauma, 0.0 Other

- Key topics:
 - Understand the importance of vitals and learn what the numbers actually mean
 - Learn how to obtain vitals correctly and do it in less than ideal conditions with hands on practice

Vitals are called vital for a reason. They are an important tool to monitor patient condition and guide us in our treatment plans. In this course we review the importance of the various vitals, selecting the proper cuff size, review how to take orthostatic vitals correctly, discuss shock index, respiration types, pulse pressure, pupillary response and what it means, and pulse oximetry and its limits. Most importantly, we gain an understanding of what the numbers actually mean and what particular changes might indicate. Hands on practice is conducted in realistic environments such as dark rooms or noisy places and with patients that are less than cooperative.



Traction Splinting

- Course Number: Under Development
- Length: 2 hours
- Credits: Pending

- Key topics:
 - Recognize a femur injury and indications for traction splinting
 - Understand benefits / issues with different types of devices

Course under development.