



**IIF Data Solutions Unclassified CBRNE/WMD Courses / Lectures:  
21 April 2014**

1. **Oklahoma City new revelations: An update 2014**: A detailed, graphic presentation of the Oklahoma City terrorism attack with new lessons learned and updates. 180 minute course. **Intermediate Incident Command Level Course**
2. **Oklahoma City CBRNE/WMD Table Top Exercise: 2014**: What if a Weapons of Mass Destruction had been used in Oklahoma City terror incident. An emergency management scenario asks “How would you respond accordingly.” You select a 1 or 2 Day course. **Advanced Incident Command Level Course**
3. **Biological disease incident**: A graphic depiction of biological diseases or weapons grade terrorism acts from 1915 to 2013. 180 minutes. **Intermediate Course.**
4. **Biological disease incident Table Top Exercise**: You choose a biological agent from the following list below. We will design an incident scenario to test your response to and mitigation factors for such an incident. You select a 1 or 2 Day course. **Advanced Course**  
{Bacillus Anthracis, Brucella SPP, Burkholderia SPP, Yersinia Pestis, Francisella Tularensis, Chlamydial Agents (C Psittaci), Coxiella Burnetii (Q Fever), Orthopox Viruses (Smallpox), Encephalitis Viruses (VEE), Hemorrhagic Fevers (Ebola, Marburg, Yellow), Influenzas (A, B, C), Botulinum Toxins (A, B, E, F, G), Ricin, Marine Toxins (Microcystine), Staphylococcal Enterotoxin B, Trichothecene Mycotoxins (T2), Epsilon Toxin of Clostridium Perfringens, Shigella3, Vibrio Cholerae3.}
5. **Radiation incidents**: A graphic depiction of radiological incidents and terrorism acts from 1915 to 2013. 240 minutes. **Basic Course**
6. **Radiation incidents Table Top Exercise**: You choose a radiological agent from the following list below. We will design an incident scenario to test your response to and mitigation factors for such an incident. You select a 1 or 2 Day course. **Advanced Course**  
{Americium, Radium, Plutonium-238, 239, Uranium-234, 235, 238, HEU, EU, DU Iodine-123, 125, 129, 131; Strontium-90; Cesium-137; Iridium-192; Cobalt-60}
7. **Radiological Dispersal Devices**: A graphic depiction of Radiological Dispersal Devices and Weapons and terrorism acts up to 2013. 120 minutes. **Intermediate Course**

8. **Domestic Terror Briefing**: A graphic depiction of domestic and international terrorism acts up to 2014. 240 minutes. **Intermediate Course**
9. **Nuclear Reactors**: A detailed description of nuclear power plants and the issues with security, response to and protection of these critical Infrastructure facilities and how to prepare for a catastrophic incident. 180 minutes. **Advanced Course**
10. **Acute Radiation Syndrome**: A graphic depiction of the physiological effects of Acute Radiation Syndrome 2014. 60 minutes. **Advanced Course**
11. **Medical Effects of Ionizing Radiation: Late effects**: A graphic depiction of the medical effects of Ionization Radiation and the physiological effects of Late Onset Radiation Syndrome. 120 minutes. **Advanced Course**
12. **Chemical, Biological, Radiological, Nuclear and High Yield Explosives (CBRNE) assets and construct**: A briefing on the CBRNE Emergency Response capabilities of the US Military (National Guard and Active Duty Forces) 75 minutes. **Basic Course**
13. **Nuclear Weapons**. Introduction to tactical nuclear weapons and the extreme damage it has on the infrastructure. Challenges to First responders are addressed. 240 minutes. **Advanced Course**
14. **Psychological considerations: CBRNE**: A graphic depiction of the psychological effects of Radiation attacks has on a populace. 60 minutes. **Intermediate Course**
15. **Pulmonary physiology**: A graphic depiction of WMD/CBRN on pulmonary physiology and the challenges in caring for these types of injuries in the EMS and medical center arena. An advanced understanding of the principles of contamination and medical care while in PPE. 120 minutes. **Advanced Course**
16. **Continuity of Operations/ Business Resiliency**. A briefing on Continuity of operations and business resiliency during a Pandemic, large scale disaster or significant terrorism act. 240 minutes. **Intermediate Course**
17. **Physical Principals**: Physics 101: A graphic depiction of radiation, isotopes, and physical properties of radiation and mitigation techniques. An advanced understanding of the principles of Alpha, beta, gamma, neutron and x-rays and the physiological effects. 120 minutes. **Advanced Course**
18. **Madrid Bombing Table Top Exercise addressing if a WMD was used**: A detailed, graphic presentation of the Madrid terrorism attack if a WMD was used. You select a 1 or 2 Day course. **Advanced Course**



19. **Nerve Agent:** A graphic depiction of WMD/CBRN and nerve agent damage on human physiology. Advanced physiology and the challenges in caring for these types of injuries in the EMS and medical center arena. The challenges of differentiation of these agents and a terrorism WMD incident are addressed. An advanced understanding of the principles of contamination and medical care while in PPE. 240 minutes. **Advanced Course**
20. **Decontamination in WMD/CBRNE/TIC/TIM environments.** The challenges. 75 minutes. **Intermediate Course**
21. **Vesicants:** A graphic depiction of WMD/CBRN vesicants damage to humans on physiology and the challenges in caring for these types of injuries in the EMS and medical center arena. The challenges of differentiation of these agents and a terrorism WMD incident are addressed. An understanding of the principles of contamination and medical care while in PPE. 120 minutes. **Advanced Course**
22. **Chemical Incidents:** A graphic depiction of WMD/CBRN Chemicals (Toxic Industrial Materials- TICS and Toxic Industrial Chemicals-TICS) on human physiology and the challenges in caring for these types of injuries in the EMS and medical center arena. The challenges of differentiation of these agents and a terrorism WMD incident are addressed. An advanced understanding of the principles of contamination and medical care while in PPE. 120 minutes. **Advanced Course**
23. **Chemical Incidents:** You choose a chemical agent from the following list below. We will design an incident scenario to test your response to and mitigation factors for such an incident. You select a 1 or 2 Day course. **Advanced Course (+)**  
{Mustards (Suflur Mustard), Lewisite, Cyanide (AC), Arsine, Hydrogen Sulfide, Sulfur Dioxide, Methyl Isocyanate, GA (Tabun), GB (Sarin), GD (Soman), VX, Phosgene Oxime, Sulfuric Acid, Tungsten Hexafluoride, Chlorine, Chloropicrin, Phosgene, Ammonia, Boron Trichloride, Diborane, Hydrogen Halides, Nitric Acid Fuming, Acrolein, Ethylene Oxide.}
24. **Hurricanes:** Challenges, damage and impact in providing support to Civil Authorities and citizens. An All-Hazards approach. 120 minutes. **Basic Course**
25. **Cyanide:** A graphic depiction of cyanide agents and the damage on human physiology. Advanced physiology and the challenges in caring for these types of injuries in the EMS and medical center arena. The challenges of differentiation of these agents and a terrorism WMD incident are addressed. An advanced understanding of the principles of contamination and medical care while in PPE is also discussed. 2012. 60 minutes. **Advanced Course**
26. **Incapacitating Riot-control agents:** An advanced course and graphic depiction of these agents during civil disturbances and crowd control on human physiology and the challenges in caring for these types of injuries in the EMS and medical

- center arena. The challenges of differentiation of these agents and a terrorism WMD incident are addressed. An advanced understanding of the principles of contamination and medical care while in PPE. 60 minutes. **Advanced Course**
- 27. Pandemic Events: preparation 2013 and beyond:** A graphic depiction of the effects and interruption of a pandemic event on continuity of operations and government. The course examines the effects on the populace in particular, the pulmonary system and the challenges in caring for these types of injuries in the EMS and medical systems arena. An advanced understanding of the principles of contamination and medical care while in Protective Personal Equipment (PPE) and the challenges for the National Guard and other entities. An advanced understanding of the principles of contamination and medical care while in PPE. 2013. 90 minutes. **Intermediate Course**
- 28. Agricultural Terrorism: Impacts and Preparedness 2014.** A graphic depiction of the effects and interruption of an attack on our agriculture. A zoonotic disease and vector approach to the impacts of a criminal act or terrorism attack would have on our crops and animal populations are discussed. This impact would also cause severe interruption to our government as it relates to continuity of operations (COOP) and government (COG). The course examines the effects on the populace in particular, the mass disruption and panic, psychological and economic impacts. In addition, the course discusses the challenges in caring for a populace, food distribution and logistical challenges and prioritization of resource management and allocation of resources. An advanced understanding of the principles mass care looking at ESF 6 and ESF 8 under the NIMS construct is reviewed. The challenges for the National Guard and other agencies are also discussed. An advanced understanding of the principles of medical care for this type of event is examined. 240 minutes. *For certification the course has a didactic requirement of 40 hours.* **Advanced Course**
- 29. AQ Operatives, Suicide Bombers and UAVs: A Nexus:** A historical view of tactics, techniques and procedures on Al Qaeda and specificity on future threats current through 2014. A detailed review of female suicide bombers, methods, tactics and future threats in the international arena is also addressed. Some graphic case studies are reviewed. A graphic depicting on tactics and techniques of Guerrilla warfare to include devices made to inflict maximum damage and casualties. A graphic presentation of lone wolf actors in the U.S. and abroad. Reviews tactics, techniques and methodologies. Detailed history with weapons of choice. Finally, the use of Unmanned Aerial Vehicles by the CIA and DOD is reviewed with strategic and national implications. It includes a detailed overview of drone attacks and terrorism. Targeting and intelligence use are reviewed. 1 day. **Advanced Course**
- 30. World Trade Center update: 2014 and beyond:** A presentation of the first bombing to the 9-11 tragedy with rarely seen footage and new considerations as a nexus to other terrorism acts. The clinical implications of dusts, fumes and vapors



in occupational circumstances for First Responders and Receivers. Long term consequences of such attacks on the populace psychologically, economically and impacts on infrastructure are considered. 1 day (includes a Table-top discussion).  
**Advance Course.**

Please contact IIF and allow us to help you to meet the many requirements associated with your health care organization.

Best regards,

A handwritten signature in black ink, appearing to read "Xavier Stewart", with a long horizontal flourish extending to the right.

Xavier Stewart, PhD., F.ACFE

Program Director

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