

EXPLOSIVES ACADEMY™ E-NEWSLETTER



► EXPLOSIVES SAFETY CLASSES

THE EXPLOSIVES ACADEMY™ offers the largest selection of Internet and in-person classes on explosives safety, awareness, and education that span transportation, setup, storage, usage, contractor's licensure, DOT, ATF, blaster certification, mining applications, and legal aspects of explosives.

All online, [Internet classes](#) require advance registration

Monthly explosive safety classes are available on numerous topics.

Certification and Continuing Education Units (CEU) are available to **EXPLOSIVES ACADEMY™** students.

[Register](#) now and get certified by licensed blasting professionals!

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► SPOTLIGHT: Classes now available on Improvised Explosive Devices (IEDs) and Explosively Formed Penetrators (EFPs)



US Department of Defense

Figure 1. Wires and Improvised Explosive Devices discovered in a suitcase in the home of a suspected terrorist in Iraq.

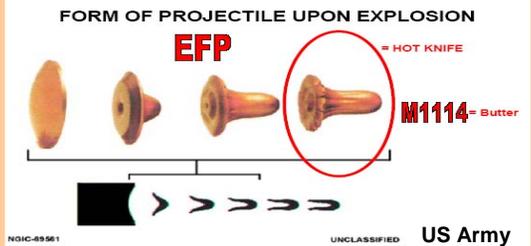


Figure 2. An Explosively Formed Penetrator

THE EXPLOSIVES ACADEMY™ is now pleased to offer Internet and in-person classes that cover safety, awareness-level training, and understanding of Improvised Explosive Devices and Explosively Formed Penetrators. These must-have classes are useful for anyone in the security, military, government, transportation, education, and journalism sectors.

Certification is available.

Enroll now in our exclusive online & in-person

- DOT safe transport of explosives certification classes
- Blasting contractor's license training classes
- Blaster's certification training classes

► **The ATF Vehicle Bomb Explosion Standards will soon be updated**

THE EXPLOSIVES ACADEMY™ is pleased to report that the ATF Vehicle Bomb Explosion Hazard and Evacuation Distance (Figure 3), the gold standard for explosives research and industry, will soon be updated. This must-have reference will be an extraordinarily useful chart for explosives safety and emergency response.

The update is undertaken in response to the need to recognize larger vehicles that can now be used to transport and, unfortunately, detonate larger quantities of explosives. The largest vehicle on the current chart, for example appears to be a 5-axle semi-trailer with a maximum explosives capacity of 60,000 lbs. (27,273 kg).

ATF	VEHICLE DESCRIPTION	MAXIMUM EXPLOSIVES CAPACITY	LETHAL AIR BLAST RANGE	MINIMUM EVACUATION DISTANCE	FALLING GLASS HAZARD
	COMPACT SEDAN 500 Pounds 227 Kilos <i>(In Trunk)</i>	500 Pounds 227 Kilos <i>(In Trunk)</i>	100 Feet 30 Meters	1,500 Feet 457 Meters	1,250 Feet 381 Meters
	FULL SIZE SEDAN 1,000 Pounds 455 Kilos <i>(In Trunk)</i>	1,000 Pounds 455 Kilos <i>(In Trunk)</i>	125 Feet 38 Meters	1,750 Feet 534 Meters	1,750 Feet 534 Meters
	PASSENGER VAN OR CARGO VAN 4,000 Pounds 1,818 Kilos	4,000 Pounds 1,818 Kilos	200 Feet 61 Meters	2,750 Feet 838 Meters	2,750 Feet 838 Meters
	SMALL BOX VAN 10,000 Pounds 4,545 Kilos <i>(14 FT BOX)</i>	10,000 Pounds 4,545 Kilos <i>(14 FT BOX)</i>	300 Feet 91 Meters	3,750 Feet 1,143 Meters	3,750 Feet 1,143 Meters
	BOX VAN OR WATER/FUEL TRUCK 30,000 Pounds 13,636 Kilos	30,000 Pounds 13,636 Kilos	450 Feet 137 Meters	6,500 Feet 1,982 Meters	6,500 Feet 1,982 Meters
	SEMI-TRAILER 60,000 Pounds 27,273 Kilos	60,000 Pounds 27,273 Kilos	600 Feet 183 Meters	7,000 Feet 2,134 Meters	7,000 Feet 2,134 Meters

Figure 3. The ATF Vehicle Bomb Explosion Hazard and Evacuation Distance

The updated ATF chart will also include a larger sampling of transportation conveyances, including larger trucks, rail cars, and maritime vehicles.

As soon as the ATF publishes and posts the newly revised chart, **THE EXPLOSIVES ACADEMY™** will provide a direct link to the ATF webpage of interest.



US Department of Defense

Figure 4. Iraqi army soldiers and citizens observe rubble from a truck bomb explosion in Tal Afar, Iraq, March 29, 2007.

Yet, an illustration by the FHWA (Figure 5) shows some of the larger and heavier trucks, which may include conventional combination vehicles and larger combination vehicles.

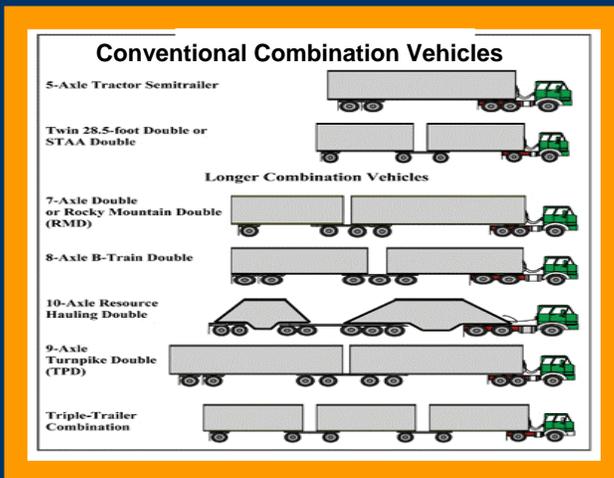


Figure 5. Conventional combination vehicles and larger combination vehicles (FHWA).



Incolumitas Primoris

► Start updating your shipping papers now

According to 49 CFR 172.202b, there is now a new sequence for the shipping descriptions on DOT shipping papers to take effect over the next six years: **I** (Identification number), **S** (Proper Shipping Name), **H** (Hazard Class or Division), **P** (Packing Group). For international shipments of hazardous materials, such as Class 1 explosives, this new sequence is now in effect. Compliance for all domestic shipments begins January 1, 2013.

MILITARY: DD Form 2890, for international and national multimodal transport of dangerous goods, may ultimately replace DD Form 836. At this time, DD Form 836 serves U.S. highway and rail transport of hazardous materials.

► Did you know?



There are more than 800 varieties of commercially available Ammonium Nitrate Fuel Oil, ANFO. The most common fuel oil used is diesel fuel.

Do you have any photos or interesting tips, best practices, or lessons learned on explosives safety you would like to share with our readership? We may feature your article or contribution in our next newsletter! Please e-mail us a short synopsis of 250 words or less, along with your full name, address, fax, and daytime telephone number to:

didyouknow [at] explosivesacademy.org

Government, military, and commercial carriers require practical, step-by-step classes to complete shipping papers for the safe transportation of explosives, gases, and flammable liquids.

THE EXPLOSIVES ACADEMY™ now offers the best and largest line of Internet web-based classes on explosives safety education. These classes are ideal for beginners or seasoned professionals. *No more embarrassing questions!* Learn how to complete a variety of forms for the safe shipment of different explosive materials on aircraft, highways, ships, and trains.

Certification is available and essential in today's industry. Register now! Safety should *never* be a delay.

To add your name to the **EXPLOSIVES ACADEMY™** e-list for updates, training, and class enrollment information, please send your contact information to:

enews [at] explosivesacademy.org

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ATTENTION VETERANS:

Are you interested in an explosives safety career? VA Education benefit programs, such as the GI Bill, Tuition Assistance, Veterans Educational Assistance, etc. may apply to **EXPLOSIVES ACADEMY™** classes. Inquire now.



US Army