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**Ammunition and Explosives  
Certification Training  
2009**

**John Q. Doe**  
an employee of Sierra Lobo, Redstone Technical Test Center, Redstone Arsenal, AL  
has successfully completed Ammunition & Explosives Certification Training IAW  
ATEC-R 385-1, AMC-R 350-4, DAP 385-64, DOD 4145.26, & OSHA CFR 29

**Course # Amtec-404**  
40 Hours

Research Park, Huntsville, AL  
July 13-17, 2009

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Continuing Education Units 2.5

# AMMUNITION & EXPLOSIVES CERTIFICATION TRAINING

Presented by



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July, 2011

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## Why Certification Training?

- Promote and maintain a high level of safety awareness.
- Increase technical knowledge and operational efficiency.
- Ensure employees routinely employ safe work practices.
- Meet employer responsibilities.
- Protect management and supervisory personnel from liability.
- Meet regulatory requirements.
- *Prevent accidents/mishaps/near misses.*

## Who Should Be Certified?

- Government and contract employees who work with or in the presence of explosives, ammunition, weapon systems, or explosive components.
- Managers, supervisors, and other individuals whose actions and decisions have an impact on explosives safety.
- Employees of companies that have or may be seeking government contracts that require explosives certification.
- Employees that work for government organizations and contract companies that are proactive in establishing and maintaining an effective explosives safety program.
- Anyone who falls under the provisions of AMC-Reg 350-4, ATEC-Reg 385-1, NAVSEA OP5, AF-Manual 91-201, DOD 4145.26-M, DOE 440.1-1A, NASA STD 8719.12, OSHA CFR 29, DOT CFR 49, ATF CFR 27 and TSA safety regulations.

## Explosives Safety Certification

### **Amtec Course # 101 (16 hrs)**

- ◆ Characteristics and Hazards of Explosives
- ◆ Explosive Effects
- ◆ Classification Systems & Hazard Divisions
- ◆ Storage Principles and Storage Compatibility
- ◆ Fire and Chemical Hazard Symbols
- ◆ Fire Protection at Explosives Facilities
- ◆ Transporting & Handling Explosives
- ◆ Industrial Safety & Explosives
- ◆ Personal Protective Clothing & Equipment
- ◆ Material Handling Equipment (MHE)
- ◆ Explosive Operations Safety
- ◆ Static Electricity & Electrostatic Discharge

### **Amtec Course # 201 (24 hrs)**

*Includes Crs 101 subjects shown above plus safe demolition procedures and range operations. Additional subjects are:*

- ◆ Electric & Nonelectric Initiators
- ◆ Munition Characteristics & Precautions
- ◆ Hazards of EMR to Ordnance (HERO Safety)
- ◆ Demolition Range Safety
- ◆ Static Detonation of High Explosives
- ◆ Firing Line Safety
- ◆ Procedures & Precautions at Assembly Areas and in Impact Areas

### **Amtec Course # 202 (24 hrs)**

*Includes Crs 101 subjects plus subjects covering development, testing, and using artillery and mortar rounds, small arms, fuzes, flares, grenades, submunitions, and small explosive devices. Additional subjects are:*

- ◆ Standing Operating Procedures (SOP)
- ◆ Munition Characteristics & Precautions
- ◆ Test Firing Small Arms & Mortar Rounds
- ◆ Test Firing Large Caliber Weapons
- ◆ Range Safety & RDT&E Operations
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Procedures & Precautions for Assembly/Test

## Amtec Course # 203 (24 hrs)

*This course combines the subjects in Crs 101 with the following subjects covering **development, assembly, disassembly, testing, storage, transport, and disposal of rockets, missiles, warheads, propulsion systems, and components.***

- ◆ Standing Operating Procedures (SOP)
- ◆ Initiators
- ◆ Rkt & Msl Characteristics and Precautions
- ◆ Hazards of EMR to Ordnance (HERO) Safety
- ◆ Missile and Rocket Assembly & Disassembly
- ◆ Missile and Rocket Testing
- ◆ Range Safety & RDT&E Operations
- ◆ Procedures and Precautions at Test and Assembly Areas

## Amtec Course # 404 (40 hrs)

*Crs # 404 is an expanded version of Crs # 203 that allows time for additional subjects, practical applications, exercises, and mishap case studies. It is designed for personnel who are involved with **research, development, test, and evaluation of rockets, missiles, motors, warheads, S&A devices, igniters, and internal explosive components.** It includes the core subjects in Crs # 101 plus the following subjects:*

- ◆ Standing Operating Procedures (SOP)
- ◆ Initiators
- ◆ Rocket/Missile Characteristics & Precautions
- ◆ Hazards of EMR to Ordnance (HERO Safety)
- ◆ Missile & Rocket Assembly & Disassembly
- ◆ Range Safety & RDT&E Operations
- ◆ Explosives Laboratory Safety
- ◆ Propellants & Pyrotechnic Materials
- ◆ Explosives mixing, cutting, & Machining
- ◆ Missile/Rocket Testing (Static, Flight, Sled, Dynamic, Electrical, & Functional)
- ◆ Requirements Common to RDT&E Missions
- ◆ General Procedures/Precautions at Test Sites
- ◆ Missile and Rocket Recovery Operations
- ◆ Successful Explosives Site Visits
- ◆ Mishap Case Studies & Exercises

## Amtec Course # 406 (40 hrs)

*Crs # 406 is an expanded version of Crs # 202 and emphasizes **development, testing, and using projected and dropped munitions, fuzes, flares, pyrotechnic devices, grenades, submunitions, and associated weapon systems.** The additional time allows for in-depth coverage of practical applications, exercises and mishap case studies. It includes the basic subjects shown in Crs # 101 plus the following subjects:*

- ◆ Standing Operating Procedures (SOP)
- ◆ Munition Characteristics & Precautions
- ◆ Test Firing Small Arms & Mortar Rounds
- ◆ Test Firing Large Caliber Weapons
- ◆ Range Safety & RDT&E Operations
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Procedures & Precautions for Assembly/Test
- ◆ Operations Common to RDT&E Missions
- ◆ Explosives Laboratory Safety
- ◆ Firing Line Safety
- ◆ Precautions in Impact Areas
- ◆ RDT&E Range Safety
- ◆ Selected Munition Systems
- ◆ Successful Site Visits
- ◆ Mishap Case Studies (Exercises)

## Explosives Safety Refresher Training

*Periodic refresher training is essential for an effective explosives safety certification program. Refresher training will ensure a high level of safety consciousness, prevent accidents, and enhance safety awareness throughout the work force. This training can be tailored with renewed emphasis on important subjects in addition to new training material. You can request a brochure, entitled *Explosives Safety Refresher Training*, for a complete description. Some of these refresher courses are shown below:*

- Amtec Refresher Course # 098 (16 Hours)
- Amtec Refresher Course # 909 (8 Hours)
- Amtec Refresher Course # 908 (8 Hours)
- Amtec Refresher Course # 906 (8 Hours)
- Amtec Refresher Course # 904 (8 Hours)

## Amtec Advantages

- **Practical training that is applicable to real-world situations.** The training material covers safety requirements for individual tasks that are necessary during typical operational procedures involving explosives & explosive components.
- **Tailored to fit specific training requirements and missions.** Training can be modified to meet specific needs.
- **Flexible schedules & arrangements.** Classes can be held at or near your facility or at a location arranged by Amtec.
- **Meets regulatory requirements.** Requirements found in military, federal, state, and local regulations are covered by this training. Approved by key government agencies and military commands.
- **Excellent training aids.** Each attendee is given a bound workbook that coincides with the computer-projected presentation. Videotapes and practical exercises enhance the lectures and discussions. Inert training aids allow each student to experience training with a practical hands-on approach.
- **Experienced instructors.** The instructor staff has an average of 36 years of experience working with explosive systems, components, and materials. They offer insight into explosive operations including development, production, testing, use, storage, handling, and disposal.
- **Cost effective.** Exceptional training at reasonable prices. Ask about group rates and discount prices.
- **Earn continuing education credits.**

## Contact Amtec

- Coordinate training at or near your organization or company.
- Enroll in an already scheduled class.
- Receive information about training locations, class schedules, and prices.
- Request a registration form and additional information about the classes that are available.
- Inform us of your unique training requirements.
- Select subjects so we can tailor a training program for you.
- Request an organization work-study to finalize training requirements.
- Learn more about regulations and the Ammunition & Explosives Certification process.
- Discuss prices, group rates, and discounts.
- Request a brochure for the following Amtec courses that are also available:
  - Explosives Safety Refresher Tng
  - Hazard Analysis/Risk Assessment for Explosives Operations

## Call, Write, Fax, or E-mail

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