



Amtec Corporation
Safety & Training Division
500 Wynn Dr, Suite 314
Huntsville, AL 35816-3429
Direct Line (256) 319-6233
(256) 722-7200, ext 233
fax (256) 722-7212 (attn: Training)
safety@amtec-corp.com
www.amtec-corp.com

**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

AMTEC CORPORATION
500 Wynn Drive, Suite 314
Huntsville, Alabama 35816-3429
(256) 722-7200; fax (256) 722-7212
safety@amtec-corp.com

Ronald J. Deermier
Amtec Corporation
Senior Instructor

Jerry W. Fisher
Amtec Corporation
Training Manager

Continuing Education Units 2.5

AMMUNITION & EXPLOSIVES CERTIFICATION TRAINING

Presented by

AMTEC
CORPORATION

Safety & Training Division
500 Wynn Drive, Suite 314
Huntsville, AL 35816-3429

Direct Line (256) 319-6233
(256) 722-7200, ext. 233
fax (256) 722-7212 (Training)
safety@amtec-corp.com
www.amtec-corp.com

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 obligations.
- Protect management and supervisory personnel from liability.
- Meet regulatory requirements.
- *Prevent accidents.*

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, OSHA CFR 29, DOT CFR 49, and other safety regulations.

Explosives Safety Certification

Amtec Course # 101 (2 days)

- ◆ Characteristics and Hazards of Explosives
- ◆ Explosive Effects
- ◆ Electric and Nonelectric Initiators
- ◆ Munition Characteristics and Precautions
- ◆ Hazard Classification Systems
- ◆ Storage Principles and Compatibility
- ◆ Fire and Chemical Hazard Symbols
- ◆ Fire Protection and Fire Fighting
- ◆ Operations Safety
- ◆ Static Electricity & Electrostatic Discharge
- ◆ Personal Protective Clothing & Equipment
- ◆ Industrial Safety
- ◆ Transporting & Handling Explosives
- ◆ Material Handling Equipment (MHE)
- ◆ Standing Operating Procedures (SOP)

Amtec Course # 201 (3 Days)

Includes Crs 101 subjects shown above (2 days) plus safe demolition procedures and range operations, for a total of 3 days.

- ◆ Demolition Range Safety
- ◆ Basic Demolition (Electric & Nonelectric)
- ◆ Static Detonation of High Explosives
- ◆ Firing Line Safety
- ◆ High Explosives and Propellant Disposal
- ◆ Storage and Handling of Explosive Waste
- ◆ Hazards and Precautions in Impact Areas

Amtec Course # 202 (3 Days)

Includes Crs 101 subjects (2 days) plus subjects covering artillery, small arms, fuzes, and small explosive devices, for a total of 3 days.

- ◆ Operations Common to RDT&E Missions
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Explosives Laboratory Safety
- ◆ Test Firing Small Arms & Mortar Rounds
- ◆ Test Firing Large Caliber Weapons
- ◆ RDT&E Range Safety
- ◆ Static Detonation of High Explosives

Amtec Course # 203 (3 Days)

*This course combines the subjects in the 2-day Crs 101 with the following **rocket, missile, and component** subjects, for a total of 3 days.*

- ◆ Rkt & Msl Characteristics and Precautions
- ◆ Hazards of EMR to Ordnance (HERO) Safety
- ◆ Missile and Rocket Assembly & Disassembly
- ◆ Explosives Laboratory Safety
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Missile and Rocket Testing
- ◆ Range Safety

Amtec Course # 404 (5 Days)

*Amtec Course # 404 is designed for personnel who are involved with research, development, test, and evaluation of **rocket and missile systems and components**. It includes the core subjects in Crs # 101 plus 3 additional days with emphasis on practical applications, accident case studies, and testing procedures, for a total of 40 hours of training. The following subjects are added to the 101 course.*

- ◆ Rocket/Missile Characteristics & Precautions
- ◆ Requirements Common to RDT&E Missions
- ◆ General Procedures/Precautions at Test Sites
- ◆ Missile and Rocket Flight Testing
- ◆ Missile and Rocket Sled Tests
- ◆ Static Tests of Rocket and Missile Motors
- ◆ Electrical Tests of Rkts, MsIs, & Components
- ◆ Environmental Tests
- ◆ Functional and Dynamic Testing
- ◆ Electrical Initiation of Rockets and Missiles
- ◆ Static Detonation of High Explosives
- ◆ Storage & Disposal of Explosive Waste
- ◆ Range Safety
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Missile & Rocket Assembly & Disassembly
- ◆ Hazards of EMR to Ordnance (HERO) Safety
- ◆ Explosives Laboratory Safety
- ◆ Accident Case Studies (Exercises)

Amtec Course # 303 (5 Days)

*Amtec Course # 303 emphasizes **rockets, missiles, propellants & pyrotechnics**. Personnel who plan projects or perform tasks involving research, development, test, and evaluation of propulsion systems and pyrotechnic devices will benefit from this course. It includes the basic subjects shown in Amtec Course # 101 plus the following subjects for a total of 5 days of training.*

- ◆ Rocket/Missile Characteristics & Precautions
- ◆ Requirements Common to RDT&E Missions
- ◆ Explosives Laboratory Safety
- ◆ Hazardous Material Handling and Packaging
- ◆ Storage and Disposal of Explosive Waste
- ◆ Blending & Mixing Propellants/Pyrotechnics
- ◆ Cutting/Machining Propellants and High Exp
- ◆ Conditioning and Testing Solid Propellants
- ◆ Explosives Loading/Assembly Room Safety
- ◆ RDT&E Range Safety
- ◆ Static/Flight Testing Solid Propellant Motors
- ◆ Static Detonation of High Explosives
- ◆ Disposal of Low Explosives by Deflagration
- ◆ Accident 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 # 900 (12 Hours)
- Amtec Refresher Course # 904 (8 Hours)
- Amtec Refresher Course # 906 (8 Hours)
- Amtec Refresher Course # 908 (8 Hours)
- Amtec Refresher Course # 909 (8 Hours)
- Amtec Refresher Course # 911 (16 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 33 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.
- **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 in this brochure so we can tailor a training program for you.
- Request an organization work-study to finalize training requirements.
- Learn more about regulations and the certification process.
- Discuss prices and group rates.
- Request a brochure for the following Amtec courses that are also available:

- Explosives Safety Refresher Tng
- Hazard Analysis/Risk Assessment for Hazardous Operations
- Hazardous Material Training (HAZMAT)
- Counter-Terrorism and Terrorist Threat Training

Call, Write, Fax, or E-mail

Amtec Corporation
500 Wynn Dr, Suite 314
Huntsville, AL 35816-3429
Direct Line (256) 319-6233
(256) 722-7200, ext 233
fax (256) 722-7212 (attn: Training)
safety@amtec-corp.com
www.amtec-corp.com