



*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*

**Explosives Safety Refresher Training  
2009**

**Jane S. Doe**  
an employee of General Dynamics - OTS, Redmond, Washington  
has successfully completed Explosives Safety Refresher Training  
IAW AMC-R 350-4, ATEC-R 385-1, DAP 385-64, DOD 4145.26, & OSHA CFR 29

Course # Amtec-20S (Mod)  
16 Hours  
Redmond, WA  
March 9-10, 2009

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Huntsville, Alabama 35816-3429  
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safety@amtec-corp.com

Ronald J. Deerner  
Amtec Corporation  
Senior Instructor

Jerry W. Fisher  
Amtec Corporation  
Training Manager

Continuing Education Units 1.4

# EXPLOSIVES SAFETY REFRESHER TRAINING

*Presented by*

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## Why Explosives Safety Refresher?

- Ensure explosives safety is routinely practiced by all employees.
- Maintain safety awareness and keep complacency under control.
- Recognize and eliminate the causes of accidents before they occur.
- Keep abreast of current safe practices and accepted methods.
- Meet employer obligations and regulatory requirements.
- Protect management and supervisory personnel from liability.
- **Bottom line:** Prevent accidents that might cause injury to personnel, damage to equipment and property, or lost time.

## Who Should Attend Refresher?

- Government personnel and contract employees must maintain current certification to work with or in the presence of ammunition, weapon systems, explosives, or explosive components.
- Supervisors who meet their responsibilities for a safe work environment by initiating and continuously monitoring an effective explosives safety program.
- Managers who influence explosives safety by implementing policy decisions and safety standards.
- Employees affected by proponent regulations of DOD, DOE, DOT, ATF, FAA, OSHA, NASA, and other agencies. Applicable regulations: AR 385-64, NAVSEA OP5, AF-M 91-201, AMC-R 350-4, ATEC-R 385-1, DOD 4145.26-M, OSHA CFR 29, DOT CFR 49, and others.

## Amtec Refresher Courses

### **Amtec Course # 098 (16 hours)**

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

### **Amtec Course # 099 (8 hours)**

- ◆ Characteristics and Hazards of Explosives
- ◆ Explosive Effects
- ◆ Initiators, Detonators, and Igniters
- ◆ People, Explosives, and Electrical Energy
- ◆ Transporting and Handling Explosives
- ◆ Protective Clothing and Equipment

### **Amtec Course # 900 (12 hours)**

- ◆ Characteristics and Hazards of Explosives
- ◆ Munition Characteristics and Precautions
- ◆ Storing, Transporting, & Handling Exp
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Personal Protective Clothing and Equipment
- ◆ Explosives Operations Safety
- ◆ Explosives Loading Room Safety
- ◆ Test Firing Small Arms
- ◆ Test Firing Large Caliber Weapons
- ◆ Static Detonation of High Explosives

### **Amtec Course # 901 (8 hours)**

- ◆ Review of Explosives Safety Principles
- ◆ Storage/Transporting/Handling Exp Items
- ◆ People, Explosives, and Electrical Energy
- ◆ Hazards and Precautions in Impact Areas
- ◆ Generation/Storage/Disposal of Exp Waste
- ◆ Safety Precautions at RDT&E Test Sites
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 902 (8 hours)**

- ◆ Explosives Laboratory Safety
- ◆ Explosives Loading/Assembly Room Safety
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Storage and Disposal of Propellant Waste
- ◆ Testing Rocket and Missile Motors
- ◆ Hazards of EMR to Ordnance (HERO) Safety
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 903 (8 hours)**

- ◆ Explosive System Testing
- ◆ Procedures and Precautions at Test Sites
- ◆ RDT&E Range Safety
- ◆ System Assembly and Disassembly
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Hazards of EMR to Ordnance (HERO) Safety

### **Amtec Course # 904 (8 hours)**

- ◆ Basic Explosives Safety
- ◆ Initiators, Detonators, and Igniters
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Firing Line Safety & Test Range Safety
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 906 (8 hours)**

- ◆ Identify the Hazards
- ◆ Basic Explosives Safety
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Hazards and Precautions in Impact Areas
- ◆ Test Range Safety
- ◆ Haz Analysis/Risk Assessment Familiarization
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 908 (8 hours)**

- ◆ Operations Safety at Explosive Work Sites
- ◆ Munition Characteristics & Explosive Effects
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Hazards of EMR (HERO Safety)
- ◆ Range Safety
- ◆ Procedures/Precautions for Assembly/Test
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 909 (8 hours)**

- ◆ Pre-Test
- ◆ Basic Explosives Safety
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Procedures & Precautions at Test Areas
- ◆ Hazards of Electromagnetic Radiation
- ◆ Range Safety
- ◆ Operations Safety at Explosive Work Sites
- ◆ Accident Case Studies (Exercises)

### **Amtec Course # 912 (16 hours)**

- ◆ Identify the Hazards
- ◆ Characteristics of Explosives
- ◆ Basic Explosives Safety
- ◆ Static Electricity and Electrostatic Discharge
- ◆ Hazards of EMR to Ordnance (HERO) Safety
- ◆ Electric and Nonelectric Initiators
- ◆ Personal Protective Clothing and Equipment
- ◆ System Assembly and Disassembly
- ◆ Review of Specific Explosive Systems
- ◆ Explosive System Testing
- ◆ Firing Line Safety
- ◆ RDT&E Range Safety
- ◆ Precautions in Impact Areas
- ◆ Revised Explosives Hazard Division 1.2
- ◆ General Procedures for Exp Accountability
- ◆ Procedures/Precautions at Ranges & Test Sites
- ◆ Successful Site Visits
- ◆ Accident Case Studies (Exercises)

## **Amtec Advantages**

- **Practical training that is applicable to military ordnance, commercial devices, and RDT&E explosive operations.** This refresher training covers established safety requirements essential during typical explosive operations.
- **Tailored to fit each organization's training requirements and mission.** Upon request, training can be modified to meet specific training requirements.
- **Flexible schedules and training arrangements.** Classes can be conducted at or near an organization's own facility or at a location selected by Amtec Corp.
- **Meets regulatory requirements.** As stated in numerous safety manuals, refresher training will ensure compliance with current explosives safety standards.
- **Excellent training aids.** A bound workbook is used in conjunction with a computer-projected presentation, interesting videos, inert training aids, exercises, and accident case studies.
- **Experienced instructors.** The Amtec instructor staff has an average of 33 years experience working with conventional, chemical, commercial, and special explosive systems. They have an extensive background in explosives operations including development, assembly, production, testing, storage, transporting, disposal, and safety training.
- **Cost effective.** Exceptional training at reasonable prices. Ask about group rates.
- **Earn continuing education credits.**

## **Contact Amtec**

- To coordinate training at or near your facility or at a location near you.
- To enroll in a scheduled class.
- To receive information about training locations, class schedules, and prices.
- To request additional information about available refresher courses.
- To inform us of your unique training requirements.
- To select subjects in any of our brochures so we can tailor a training program for you.
- To request an organization work-study to finalize training requirements.
- To learn more about refresher training regulations and the certification process.
- To discuss prices and group rates.
- To receive a description of other Amtec courses that are also available:

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

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

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