

ADVANCED EXPLOSIVES SITE PLAN TRAINING

Safety Management Services, Inc. (SMS®), in partnership with Training & Consulting, LLC (TCI) is pleased to offer an insightful perspective into the preparation of explosives site plans (ESPs) based on DoD 4145.26-M. This four-day training course is designed to engage participants and augment facility siting knowledge through the following:

- Review basic facility siting principles, explosion effects & consequences, and other facility siting topics
- Develop a working knowledge of site planning through workshops focusing on HD 1.1, HD 1.2, HD 1.3, and HD 1.4 materials
- Provide versatile and useful tools for preparing and reviewing site plans
- **Gain invaluable classroom and hands-on experience with real-world workshops and classroom instruction**

A course outline is provided below. Greg Dohm, Facility Siting Group Manager, is available for technical questions. Online registration is available at www.tci-training.com.

March 31 - April 3, 2020 (4 Days)
\$2100

Course Prerequisites:

- Attendance of DoD 4145 training course
- Please bring a laptop computer or tablet and an electronic copy of DoD 4145.26-M

DAY 1:

1. Review of basic explosives safety siting principles
2. Explosion effects and expected consequences
3. Overview of in-process classification and shipping configurations
4. QD application workshops
 - i. HD 1.4 Storage and Operating Facilities - WS1
 - ii. HD 1.3 Storage Facility - WS2
 - iii. HD 1.3 Operating Facility - WS3

DAY 2:

1. Facility siting principles
 - i. Discussion workshop
2. QD application workshops
 - i. HD 1.1 Storage Facility - WS4
 - Storage criteria and barricade benefits
 - PES - ES relationships
 - ii. HD 1.1 Operating Facility - WS5
 - Applicability of HFD and IBD to administrative facilities

DAY 3:

1. HD 1.1 Multiple Contactors and MCE Workshop - WS6
 - i. QD reduction and MCE analysis
 - ii. Addressing fragmentation (primary vs secondary)
2. ESP tips and traps
3. Regulatory agency review and approval process
4. Advanced QD application workshops
 - i. HD 1.1 Storage Facility - WS7
 - Benefits of earth-covered magazines (ECMs)
 - ECM ratings and orientation
5. Mixing rules exercise
 - i. HD 1.2 AE Facilities - WS8
 - Distance determination and nomenclature
 - Advantages of magazine design and substantial dividing walls (SDWs)
 - ii. HD 1.1 & 1.3 Operating Facility - WS9
 - Applicability of DoD explosives service manuals to ESP
 - Impact of commercial storage and operations to ESP

DAY 4:

1. Advanced QD application workshops
 - i. HD 1.1 Operating Facility - WS10
 - Primary explosive handling and storage requirements
 - Unique challenges of urban sites
 - Data to drive decision making
 - Innovative solutions
2. QD and facility siting for foreign suppliers
3. QD mitigation strategies
 - i. Maximum credible event (MCE) analysis
 - ii. Benefits and constraints of debris modeling
 - iii. Testing to reduce QD
4. Real-world lessons learned
5. Open discussion