



# KUZGUN TECH

## Warhead and Fuze Systems Training

### ◆ Introduction to Warhead and Munition Concept

- ◇ Warheads and Target Types

### ◆ Energetic Materials

- ◇ Energetic material types
- ◇ Introduction to explosion, deflagration and detonation theory
- ◇ Types of explosives, main charges and booster charges

### ◆ Blast Warheads

- ◇ Blast wave
- ◇ TNT equivalence
- ◇ Scale Distance concept
- ◇ Indoor effectiveness / reflected blast waves

### ◆ Fragmentation Warheads

- ◇ Types of fragmentation warheads
- ◇ Fragmentation theory, Gurney calculation
- ◇ Fragmentation warheads performance parameters

### ◆ Shaped Charge Warheads

- ◇ Shaped Charge working principle
- ◇ Shaped Charge performance parameters
- ◇ Analytical shaped charge jet formation and penetration theory

### ◆ EFP Warheads

- ◇ EFP working principle
- ◇ EFP performance parameters

### ◆ KE Penetrator Warheads

- ◇ KE penetrator working principle
- ◇ Analytical / empirical penetrator performance calculation methods

### ◆ Concrete Penetrator Warheads

- ◇ Hard and buried targets
- ◇ Penetrator warhead performance parameters
- ◇ Analytical / empirical penetrator performance calculation methods

### ◆ Antiship Warheads

- ◇ Ship targets
- ◇ Antiship warhead performance parameters
- ◇ Torpedo and Underwater Mine warheads
- ◇ Underwater detonation concept

### ◆ Insensitive Munition

- ◇ Insensitive Munition definition
- ◇ Insensitive Munition tests
- ◇ Insensitive Munition design

### ◆ Terminal Ballistics Analysis Methods

- ◇ Analytical / Empirical analysis tools
- ◇ Continuum mechanics solvers / Hydrocodes
  - General concepts and principles
  - Theoretical background of numerical analysis
  - Commercial software

### ◆ Warhead Test Methods

- ◇ Arena tests
- ◇ Flash x-ray tests
- ◇ Small scale tests

### ◆ Fuze Systems

- ◇ Safe and Arm concept
- ◇ Fuze design process
- ◇ Safety requirements for compliance with standards

For Detailed Information

[info@kuzguntech.com](mailto:info@kuzguntech.com)



