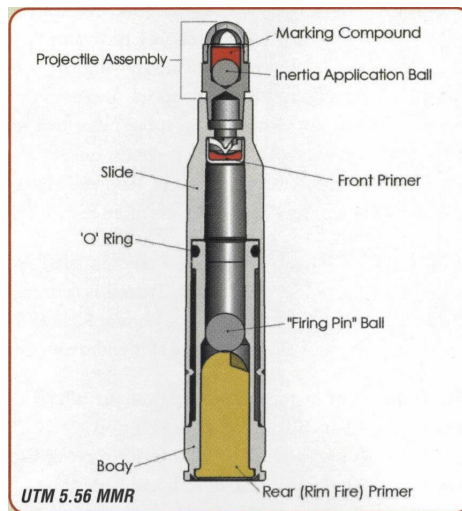




UTM a British ammunition company, has introduced a safe, extremely reliable, very accurate, affordable training ammunition and easy to exchange temporary weapon conversion kits. UTM enables duty weapons in 9mm, .357SIG, .40 caliber, and 5.56mm to fire three types of environmentally friendly training ammunition: Blanks (Silent and 'Battlefield'), Man-Markers (wax type marking compound) and the "live" (lethal) Low Energy Reduced Range Round (Solid Aluminum Bullet – MOUT training facility friendly) with greatly reduced SDZ's. All the UTM training munitions provide unparalleled accuracy with confidence building reliability. Man-Marker rounds provide a vehicle for safe, realistic scenario based training requiring minimum safety apparel. Train realistically with training ammunition that truly builds proficiency and confidence while not requiring restrictive, bulky protective safety gear.



Only two conventional primers power all UTM training ammunition. There is no additional propellant added to the cartridge. The rear primer cycles the weapon exactly as a live round does by using a patented two-part expanding cartridge system. The front primer, located at the base of the projectile assembly, fires the UTM projectiles or simply makes noise in the UTM 'Battlefield' Blank Silent Blanks do not have a front primer. Silent Blanks provide the realistic feel of a weapon firing without any noise. UTM products are designed to make training as real as possible for the various select levels of development trainers require.

## Weapon Conversion Kits: Safety of Design

Each UTM conversion kit has been designed and engineered for the utmost significance in overall safety of design, in-service reliability and maintainability. Each UTM conversion kit has been designed with fail safe measures to prevent the firing of standard 'live' round should one be inadvertently fed into a weapon converted for UTM training use:

**Live Round Lockout - Pistols & Submachine guns – FAILSAFE.** 9mm, .357SIG, and .40 caliber pistols are modified by simply exchanging the factory barrel for a UTM conversion kit barrel. 9mm submachine gun barrels are sleeved with an easy insert. Both are done to insure live round lockout. All UTM projectiles are 5.56mm caliber. This standard design feature precludes all UTM pistols and submachine gun conversion kit barrels from being able to close and go into battery. Live round lockout is failsafe due to insufficient cartridge headspace. A 9mm, .357SIG, or .40 caliber live round can start to be fed into the breech, but the weapon will not close and chamber a live round!

**Live Round Lockout – Assault Rifles & Machine guns – 5.56mm caliber-FAILSAFE** 5.56mm caliber weapon conversion kits are an easy one for one bolt exchange. UTM conversion kit bolt assemblies are failsafe by use of an off-center firing pin. This 3mm offset firing pin is used in combination with rim fire primers in the 5.56mm UTM training ammunition ensures that should a standard live ("lethal") round be inadvertently chambered, the UTM firing pin strikes only outside the 'live' center fir primer. A 'live' round can chamber in the 5.56mm weapons but they cannot fire! Vice-versa, a UTM 5.56mm round cannot fire in 'live' 5.56 mm weapon.

### Ammunition: Safety of Design

UTM achieves optimal safety of the training ammunition through the following features:

**Blank Noise.** The UTM "Battlefield" Blank Rounds only use primers. No Blank Firing Attachment (BFA) is required. By using one primer to cycle the weapon and a separate primer to make the noise in the "battlefield" Blanks, the danger area in front of a pistol is reduced to 12 inches (25cm) while still making up to 155 db. Silent Blanks use only the rear primer and the only noise made is the weapon cycling. Silent Blanks have a 1-inch (25mm) danger area! [Approved eye protection is required.]

**Use of Materials.** All of the UTM projectiles are manufactured from Aluminum, complete with raised driving bands. Because of the 'metal to metal' contact in the barrel, there is no additional barrel fouling from plastic or rubber components. By using a soft waxed based compound like the marking agent in our Man-Marker Round, UTM has a tried and tested product that does not readily dry out or freeze and has an excellent shelf life. UTM MMR ammunition marks because the marking projectile contains a small inertia applicator. This "pushes out" the wax when the projectile hits the target. Marking is guaranteed whatever the angle of impact or impact material, and there is no requirement for the MMR projectiles to break open in order to mark. Additionally, training facility clean up is quick and cost effective as lead clearance is not a factor and normal washing is all that is required. Shelf life is measured in excess of 2 years.

**Finite Energy.** By using only a primer in Man-Marker Rounds (MMR) as the energy source [NO ADDITIONAL PROPELLANT IS ADDED to cartridges!], UTM controls, under any scenario, muzzle velocities. UTM muzzle velocities would not exceed 2ft/lbs of energy with MMRs. **UTM's 'live' Low Energy Reduce Range (LERR) (lethal) target ammunition is also only powered by primers. LERR's have a primer-controlled energy level of approximately 8ft/lbs.**

**Two Primers.** The energy required to cycle the weapon (rear primer) is entirely separate from the energy produced to power the projectile (front primer). This ensures that weapon-to-weapon differences have minimal effect on velocities.

**Consistent Velocities.** Consistent velocities are essential for safe, professional Force on Force training. UTM MMR's use only the energy provided by the front primer to propel the MMR projectile. The patented system does not require any additional propellant. Adding additional propellant requires more controls and inevitably can cause greater velocity variations. UTM understands consistent velocities equal accuracy and therefore, consistent velocities mean consistent and safer impact energies.

**Function.** UTM's two primer system and high quality weapon conversion kits ensure weapons reliably function to identical standards as live weapons including their cyclic rate of fire. All psycho motor skill development remains identical

**Point of Aim = Point of Impact.** Training is not real nor taken serious if users have to compensate for and make excuses for the training ammunition. UTM allows you to put your sight where you want to hit and your hits to be where you aimed. Complete confidence in your weapon, training, and tactics is therefore reinforced. T

### Environment: Safety of Design

**Minimal Emissions.** UTM "Battlefield" Blanks only use a primer. While some gas has to be released (in order to make the noise!) there are virtually no barrel emissions. Thus, pistols or rifles can be used safely in a classroom environment at close range, or as in the case of simulators, with barrels blocked by a laser. **MMR and the lethal LERR ammunition also release minute quantities of gas and can normally be used inside buildings without the need for extensive air handling equipment.**

**Environment / Disposal.** The result of remaining heavy metal testing of fired UTM cartridges show that the levels found are far below the North American regulatory characteristics for metals (TCLP Test) according to Federal EPA and NJDEP criteria. The therefore means that the spent cases fit the solid waste category of dry industrial waste and as such, can be disposed of at a Non-Hazardous Subtitle D Facility (e.g. any local landfill site!). UTM does not have the handled as Hazardous waste.