Noptel Shooting Training Systems

- Arms
- Lanes
- Individual marksmanship
- Training environment
- Unit level
- Training level
- Troop training

Rifles (and pistols)
1 to 12 lanes typically
Advanced shooting analysis
Indoor / Outdoor / Range / Field
Units, training centers, companies
Basic and advanced training, maneuvering
Buddy pair, situational training, maneuvering

Goals

To transfer the burden of marksmanship fault identification from the human instructor to the training system which could then potentially provide remediation for fault correction. To allow marksmanship training everywhere and any time.

Noptel Training System

Noptel offers the latest technology based on years of experience with military users and makes it possible to execute comprehensive rifle marksmanship training. The Noptel Training System is based on our own measurement technology and innovative shot analysis. It helps instructors to train recruits safely and efficiently to become skilled shooters within a short time.

The idea of the optical shooting training system is to measure, monitor and record the whole shooting process in real time, allowing a full analysis of the shooter's performance. The immediate feedback received from each shot motivates the shooter and helps him to develop his shooting skills.

Noptel Training System allows using own conventional or scaled targets. In its simplest form only the optical transceiver attached on the rifle barrel and a small piece of reflector in the aiming target are needed. Also conventional pop-up or moving targets can be used.
Equipment
The rifle training system consists of Noptel Expert units, targets and computers. Typical training distance is 10 m to 100 m. The units will be delivered in portable cases.

The Expert unit covers the rifle marksmanship from basic training to advanced field training. The unit can be connected to PC (wired or wireless) or stand alone. When used stand-alone, the back panel display will show the shot results. HITs and MISSes are recorded to the unit and can be downloaded to PC for after action review.

The unit supports shooting skills training indoors and out of doors with normal or rapid firing and to round or silhouette targets. Electronic targets are activated optically upon hit.

Simple and practical LED targets are light in weight and easy to handle. The target co-operates with the Expert unit and gives a bright blinking light signal when hit.

Training
Basic training concentrates in achieving sufficient basic marksmanship skills and to understand the shooting principles. In basic training the shooter will improve the aiming, holding and triggering skills. In typical indoor training setup the shooters are in a conventional class room.

Furthermore the system can be used for advanced training in a shooting range up to 300 m. In advanced training the targets are often normal size marksmanship targets. In more advanced training each shooter can have one or more electronic targets at varying distances.

In the field the shooter can train maneuvering and situational skills with a buddy pair or within a group. These training scenarios are always planned by the instructor and they follow the training practices of the customer.

Software
The NOS application is the key element for the shooting analysis. It provides the shooter with immediate, objective and accurate information concerning the whole shooting session. The software illustrates the key factors, Hold, Aim and Trigger Control both visually and numerically, revealing both the weaknesses and strengths of the shooter.

The software includes all common rifle disciplines, and new ones can be easily created. The idea is that the user can train in a genuine environment and with normal targets and distances. The shooter receives immediate, objective feedback on the shot from the PC screen.

The software does not require a computer specialist. A normal computer user can handle the operations easily. Most of the activities are automatic, the computer-aided zeroing of the optical unit is easy to perform, and the shooter can replay the shots or series after the training session to study the results and possible faults.