



MODERN PENTATHLON 2013 COMPETITION RULES

5. EVENT RULES – COMBINED EVENT-RUNNING/SHOOTING

PART A THE EVENT

5.1 PRESENTATION OF THE EVENT

- 1 Description
- 2 Target Models

5.2 AUTHORITIES

- 1 Combined Event Director
- 2 Shooting Director
- 3 Range Officer
- 4 Target Officer
- 5 Shooting Judge
- 6 Running Director
- 7 Course Judges
- 8 Marshall
- 9 Starter
- 10 Deputy Starter
- 11 Starter Assistant's
- 12 Arrival Judges
- 13 Timekeepers
- 14 Announcer
- 15 Last Penalty Stop Area Judges
- 16 Equipment Controllers

5.3 ORGANISATION AND SCHEDULE OF THE EVENT

- 1 General Aspects
- 2 Starting Order
- 3 The Series
- 4 Warming up, Zeroing and Preparation Time

5.4 CONDUCT OF THE COMPETITION - JUDGEMENT OF THE PERFORMANCE

- 1 Particular Safety Regulations
- 2 The Start
- 3 False Start
- 4 The Shooting Series
- 5 The Running Course Parts



- 6 The Finish
- 7 Timing

5.5 SCORING

5.6 INFRINGEMENTS AND PENALTIES

- 1 10 seconds
- 2 Elimination
- 3 Disqualification

PART B INDIVIDUAL EQUIPMENT

5.7 CLOTHING

5.8 EQUIPMENT – THE PISTOL

PART C EQUIPMENT PROVIDED BY THE LOC

5.9 THE FOP

- 1 The Venue
- 2 The Different Areas
- 3 The Running Course
- 4 The Shooting Range

5.10 OTHER EQUIPMENT

- 1 The Targets Requirements
- 2 Mechanical Pellet Target
- 3 Electronic Pellet Target
- 4 Hit Laser Target
- 5 Laser Precision Target
- 6 The Indicators (Results Display Lights)

5.11 THE LOC CONTROL DEVICES AND TOOLS

PART D ANNEXES

- Appendix 5A PENALTY TABLE (see Article 5.6)**
- Appendix 5B1 POINTS TABLE – Individual 3200m / Relay 2x1600m (2000=13'20")**
- Appendix 5B2 POINTS TABLE – Individual 2400m (2000=10'30")**
- Appendix 5B3 POINTS TABLE – Relay 3x1600m (2000=20'00")**



FIGURES

Figure 1 - Indoor or Night Range Light Requirements (in Lux)

Figure 2 – The Grip of the Pistol

Figure 3 – The Bends of the Grip

Figure 4 – The Thumb in the Grip

Figure 5 – Measuring the Weight of the Trigger Pull

Figure 6 – Mechanical Targets

Figure 7 – Electronic Pellet Target

Figure 8 – Hit Laser Target

Figure 9 – Laser Precision Target

Figure 10 – Indicators (Results Display Lights)

Figure 11 – The Precision Target



5 RULES FOR COMBINED EVENT RUNNING AND SHOOTING

PART A THE EVENT

5.1 PRESENTATION OF THE EVENT

The Combined Event consists of an air pistol 10 metre shooting event in series (n° of series depending on the kind of competition) in a range equipped with one of the target models as in 5.1.2, integrated and intercalated with a Running Course of 800m (tolerance \pm 5m) (n° of laps to run depending on the category and type), with a start area not far than 25m from the first shooting station, a finish line and a last penalties stop area.

5.1.1 The Combined Event sequence

| <i>For both and mixed genders</i> | <i>Individual</i> | | <i>Team Relay 2 or 3 athletes (for each athlete)</i> | |
|--|--|--------------------------|--|-------------------------|
| | <i>Seniors, Juniors, Under 19 (YA)</i> | <i>Under 17 (YB)</i> | <i>Seniors, Juniors, Under 19 (YA)</i> | <i>Under 17(YB)</i> |
| Sequence | | | | |
| Handicap Start | X | X | X | |
| Up to 25m run | X | X | X | |
| 1 st Shooting series ("5 green lights") Time limit – 50" | X | X | X | |
| 1 st Running leg (tolerance \pm 5m) | 800m | 800m | 800m | |
| 2 nd Shooting series ("5 green lights") Time limit – 50" | X | X | X | |
| 2 nd Running leg (tolerance \pm 5m) | 800m | 800m | 800m | |
| 3 rd Shooting series ("5 green lights") Time limit – 50" | X | X | ----- | |
| 3 rd Running leg (tolerance \pm 5m) | 800m | 800m | ----- | |
| 4 th Shooting series ("5 green lights") Time limit – 50" | X | ----- | ----- | |
| | 800m | ----- | ----- | |
| Finish | X | X | X | |

5.1.2 Target Models

There are 5 main types of target models used for Modern Pentathlon competitions.

- i) PT - Pellet Target
 - a) MT - Mechanical Pellet Target
 - b) ET - Electronic Pellet Target
- ii) LT - Laser Target
 - a) HT - Hit Laser Target
 - b) LPT - Laser Precision Target

5.2 AUTHORITIES

- 5.2.1 The LOC must appoint a **Combined Event Director**, who is overall in charge of the Combined Event and:



- i) must appoint two deputy combined event directors one for the running section and one for the shooting section;
- ii) is a member of the Competition Jury;
- iii) is responsible for the correct conduct of the combined event;
- iv) permits the pentathletes to start their warming up.

5.2.2 **Deputy Combined Event Director** for the Shooting (**Shooting Director**) being in charge:

- i) to appoint and supervise: Range Officers, Shooting Judges, Target Officers, Equipment Control Officers and the Range Personnel;
- ii) of the correct conduct of the shooting event;
- iii) of the rapid correction with the appointed Range Officers of any equipment failures and for ensuring that the necessary experts and material are available to operate the range;
- iv) inform the pentathletes and coaches of the final minute and 30 seconds remaining of warming up time on the shooting range, which ends 3 minutes before start of competition;
- v) of communicating all reported irregularities and penalties to the TDs/NTOs.

5.2.3 **Range Officer** appointed one per 9 to 12 firing points and is responsible for:

- i) checking that the pentathletes uses the right firing points;
- ii) checking the names and start numbers of the pentathletes to ensure that they conform with the combined event schedule, start list, scorecards and range register;
- iii) controlling the pentathletes' clothing (shirts with name, numbers, armband, headphone, etc.);
- iv) verifying that the pentathletes' pistols have been inspected and approved by the Equipment Control Section;
- v) checking that the pentathletes assume the correct shooting position;
- vi) checking that the pentathletes do not disturb the other pentathletes;
- vii) applying and checking in collaboration with the Shooting Judge any 10 seconds penalty imposed on the pentathlete at their shooting station.
- viii) checking that during warming up, the pentathletes do not change the trigger weight;
- ix) supervising the correct operation of the targets;
- x) maintaining order on the range, with particular attention to safety;
- xi) ensuring the recording of all irregularities, disturbances, penalties;
- xii) communicating all irregularities and penalties to the Shooting Director.

5.2.4 **Target Officers** must

- i) prepare the shooting targets before the competition;
- ii) assist the Shooting Director during all the competition.
- iii) assist the pistols testing and be a complement of the Equipment Controllers.

5.2.5 The Shooting Director must appoint one **Shooting Judge** for each shooting station in Category A competitions, and 1 Shooting Judge per 2 shooting stations in all the other competitions. They are responsible for:

- i) observing all shots fired;
- ii) controlling that the pentathlete, with pellet pistol, completes the loading sequence (fully closes the breech) with the pistol in contact with the shooting table; With Laser Pistol, controlling that the pentathlete touches the shooting table in between each shot;
- iii) after each shooting series, checking if the pistols are safe (a pellet pistol is safe when placed on the shooting table pointing down the range, in an unloaded position (no pellet in the barrel and in an open position); a laser pistol is safe when placed on the shooting table pointing down the range);
- iv) checking that the pentathlete resets the target before the start of each shooting series (in case of mechanical target);
- v) informing the Shooting Director immediately about any infringement of the rules;
- vi) applying and checking in collaboration with the Range Officer any 10-second penalty imposed on the pentathlete at their shooting station.
- vii) With all the pistol models, start the stop-watch at the first attempted shot. In case of a break-down of the automatic time system, informing the pentathlete at 5 seconds before the 50" time limit expires by saying "Position XX 5" remaining", and giving the command



“Position XX GO”, to the pentathlete when the 50” time limit has expired in case the pentathlete has not completed successfully the shooting series.

- 5.2.6 **Deputy Combined Event Director** for the Running (**Running Director**) being in charge to:
- i) appoint and coordinate the activities of all the Running Officials: Course Judges, Marshall, Starter, Deputy Starters, Starter’s Assistants, Arrival Judges, Timekeepers, Recorders, Announcers, Last Penalty Stop Area Judges;
 - ii) supervise the building of the course and the conduct of the event;
 - iii) ensure that the course or track and all equipment, including marketing banners, are in accordance with the UIPM Rules;
 - iv) ensure that the UIPM Rules are observed and has the authority to penalise pentathletes or other persons that infringe these Rules;
 - v) appoint special judges with the task to coordinate the application of the penalties from the starting area, the shooting range penalties and the last penalties stop area.
- 5.2.7 The **Course Judges** are assistants of the Running Director without authority to make final decisions. They shall be placed by the Running Director in such positions that they may observe the running closely and in case of a foul, deviation of the course or unauthorised assistance, or violation of these rules by another person immediately report this to the Running Director in writing.
- 5.2.8 The **Marshall** has full charge of the start/finish area and the shooting range area, and must not allow any person other than the officials and competing pentathletes to enter or to remain there. The Marshall can be assisted by one or more assistants.
- 5.2.9 The **Starter** has entire control of the pentathletes whilst on their marks and is the sole judge of any fact connected with the start of the race. They are responsible for synchronising their own, the Timekeepers’ and Deputy Starters’ watches and for giving the start signal to the first pentathlete at the moment they are due to start and informing them prior to the start about the remaining time to start. The Starter will apply false start penalties and inform the Running Director who will inform the Announcer.
- 5.2.10 The **Deputy Starters**, one for each start line, are under the supervision of the Starter. The Deputy Starters must not have physical contact with the pentathletes. Their duties are to control that each pentathlete starts according to their start time.
- 5.2.11 The **Starter’s Assistants**, one for each start line, must check the pentathletes in the start-lanes and make sure that the pentathletes are lined up in correct order, in right time, wearing the correct clothing, with the name and the national code, the numbers properly fastened on both chest and back. Any violation of these rules must be reported immediately to the Running Director.
- 5.2.12 The **Arrival Judges** are responsible for registering the arrival order of the pentathletes at the finish line; two groups of two judges that work independently are needed.
- 5.2.13 The **Timekeepers** must use their stopwatches or manually operated electronic timers with or without digital readouts. All such timing devices are termed "watches" for the purpose of these Rules. Whether an automatic timing is used or not, there should always be three Timekeepers, one of whom shall be the **Chief Time Keeper**. Their responsibility is to record the times of the pentathletes.
- 5.2.14 The **Announcer** is responsible for informing the public of the names and numbers of the pentathletes taking part in the combined event and other relevant information such as intermediate times. The Announcer is charged with broadcasting the first part of the count down to the start of the event up until one minute to departure, after which the countdown is under the control of the Starter. The results (placing, times and points) must be announced at the earliest possible moment after receipt of the information.



5.2.15 The **Last Penalty Stop Area two Judges** stay at the special penalty area located between 400-600m after the end of the shooting range, ready to apply penalties that cannot be applied at the shooting station.

5.2.16 **Equipment Controllers:** who are responsible for testing the weapons and other shooting equipment and clothing.

5.3 ORGANIZATION AND SCHEDULE OF THE EVENT

5.3.1 General Aspects

Competition materials/equipment and clothing includes all of the materials, equipment, competition gear and clothing which the pentathlete uses during the combined event, including advertising, must be controlled before the competition.

- i) The equipment inspections normally must be organised following the start of the riding event or after the second event in case of semi finals. Pistols can be controlled the day before but the pistols will be kept by the LOC or sealed until warm-up.
- ii) Pentathletes shall report at the materials/equipment and clothing inspection area at the scheduled time in order to have their equipment checked and marked, and their clothing inspected.
- iii) A Maximum of 1 reserve pistol or cylinder per pentathlete is to be brought to the Equipment Control Area and clothing checkpoint for inspection and marking. The reserve pistol must be taken directly to the range and deposited closed in the pentathletes' box at their own shooting station. The range staff will not permit the deposit of the reserve pistol after the warming up time is ended.
- iv) The Equipment Control Area consists of 3 Equipment Controllers who are responsible for testing the weapons and other shooting equipment.
- v) The Equipment Control Area must provide a complete set of gauges and instruments for equipment control before the event.
- vi) In case the pistol ceases to function the pentathlete can use another pistol but this reserve pistol, provided by him/herself, must have been previously inspected, approved and marked by the Equipment Control Section.
- vii) Pistols are checked as to calibre, weight, single shot and dimensions and are subject to a trigger test only before the warming up. All accepted pistols are marked as being allowed for competition. Laser pistols are checked also in the parameters according article B.5.8.2 ii.
- viii) The approved trigger test weight that is used for the official test must be available to the pentathletes on the range before the event. When testing the weapons the propellant charge must be activated.
- ix) All approved equipment must be marked with a seal or sticker and recorded on the control card. The Equipment Control Area must register the name of the pentathlete, the make (manufacturer), type and serial number of the pistol. The approval is valid only for the respective event. In the case of laser containers, the seal/sticker should be placed so that the laser container cannot be interfered with after the equipment test.
- x) After the equipment has been approved, the pistol must not be modified nor adjusted at anytime prior to or during the event in any way that would conflict with the Combined Event Rules, unless with the agreement and under the supervision of the Range Officer.
- xi) Any unapproved alterations or exchange will incur a penalty. If there are any doubts regarding any alteration, the pistol must be returned to the Equipment Control Area for re-inspection and approval.
- xii) Appropriate CO2 and air must be available on the weapon control area for the pentathletes.
- xiii) During Relay competition (of two or three pentathletes) only the competing pentathlete's pistol can be laid on the shooting range table top; only the pentathletes are authorised to move their pistols from the pistol storage under the table to the shooting tabletop.

5.3.2 Starting Order

The starting order of the Combined Event is arranged based on the handicap system: the score in points of the athletes after the previous Pentathlon disciplines is totalled up, and the



differences in their standings are converted into different starting times. 4 pentathlon points are equal to 1 second (for Senior, Junior, Under 19 (YA) and Under 17 (YB)). The athlete with more points after the previous events will be the first to start, at the Start Signal (0'00"), and will shoot in shooting position nr 1.

5.3.3 The Series

The Shooting competition is in series (number of series according 5.1.1). Each series consists of hitting 5 targets with an unlimited number of shots in a maximum time of 50" on a target with a valid zone of dimension 59.5mm. If after 50" one or more targets have not been hit (or the athlete did not hit 5 times the valid zone) the pentathlete can start the running leg without being penalised, provided the pistol is made safe in accordance with Rule 5.4.1 x).

5.3.4 Warming up, Zeroing and Preparation Time

- i) The LOC will confirm the format of the warm up, zeroing and preparation time at the Technical Meeting.
- ii) Athletes are invited by the Combined Director to enter the shooting positions. The shooting station corresponds to the pentathletes starting number. Pentathlete No.1 will shoot at station No.1, pentathlete No. 2 will shoot at station No. 2 and so on.
- iii) Athletes are not allowed to take their pistols out of their box unless the Command 'uncase and prepare weapons' is given by the Shooting Director. With laser targets it will be necessary to ensure that the pistol and the target are in good communication. The Shooting Director will give the command "Preparation – START" and athletes are allowed to shoot. The time of the preparation must not be longer than 8min.
- iv) After the Shooting Director has confirmed that all the pistols and targets are working properly, he will give the Command "STOP". Pistol must on the table in a safe position.
- v) Then the warm up will start, after the appropriate command ("12min Warm up START") by the Shooting Director.
- vi) With pellet pistols, the zeroing should only take place on the range using 10m air pistol paper targets. Paper targets must be placed at the same level and at the same distance from the firing point on the right side of the competition target.
- vii) With Electronic Targets, if the zeroing paper targets are placed on the real target the 20 minute warm up must be divided into two sessions: 7 minutes on the zeroing/paper targets, 1' minute break to change the targets, 12' minutes on the electronic target.
- viii) During the warm up period the pentathletes can run and shoot an unlimited number of shots. Constant beam (laser model) is only authorised in the warm up.
- ix) At the Shooting Station, pentathletes can use water and towels which must be kept under the table with the reserve pistol and any binoculars used during warm up. No video camera is allowed in the shooting position.
- x) The Shooting Director will inform the pentathletes of the last 5 minutes, the last minute and 30 seconds remaining of the shooting session warm up.
- xi) After the warm up and before the start signal the pistols must be on the assigned Shooting Station, not charged and without pellets in the chamber and the reserve pistol must be in its box, under the shooting table.
- xii) During the warming up the coaches can assist and communicate with the pentathletes from a specially marked area for coaches outside of the Shooting Stations and the running corridor.
- xiii) Shooting warming up session must be closed 3 minutes before the start of the combined event competition and coaches must clear the Field of Play and the athletes must go to the Combined Event starting line.

5.4 CONDUCT OF THE COMPETITION - JUDGEMENT OF THE PERFORMANCE

5.4.1 Particular Safety Regulations

- i) Safety Regulations are to be established by the LOC in accordance with the respective national laws of the organising country. The LOC is responsible for informing all event participants of these rules and providing for their application.
- ii) The safety of all event participants and spectators requires self-discipline, careful attention to pistol handling and caution in moving about the competition area by



- everybody concerned. It is the responsibility of the pentathletes and team representatives to ensure they fill their pistols and cartridges safely and efficiently.
- iii) In the interest of safety, the UIPM TD/NTO, Shooting Director or Range Officers may stop the combined event at any time. Pentathletes and team officials must immediately notify Range Officers of any situation that may be dangerous or which may cause an accident.
 - iv) Dry firing, which means the release of the air pistol trigger mechanism by use of a fitted device which enables the trigger to be operated without discharging any of the propellant air or gas, and aiming exercises are permitted, but only upon authorisation of the Combined Event Director or Shooting Director and only on the firing line.
 - v) Pistols must not be touched when any person is forward of the firing line.
 - vi) Pellet pistols must be made safe by opening the cocking handle and/or loading part.
 - vii) Whilst the pentathlete is on the firing point, the pistol must always be pointed in a safe direction. In the combined event area, when the pistol is not on the firing point, it must always be in its box.
 - viii) Pistols may be loaded only at the firing point, and only after the command to 'uncase and prepare weapons' is given and only after the command "warming up START" is given.
 - ix) If the command "STOP" is given, all pentathletes must stop shooting immediately and place the pistol on the table in a safe direction and not cocked.
 - x) After the last shot of each shooting series the pentathlete must ascertain before leaving the firing point, and the Range Officer will verify that there are no pellets in the chamber; the pistols must be made safe by opening the cocking handle and/or loading part. Laser pistols are automatically in "safe mode" (the shot cannot be triggered) if the pentathlete does not "reload" (reset the trigger).

5.4.2 The Start

- i) The handicap start must use three gates: two gates A and B and one additional Penalty (P) Gate. The Start Line of the running shall be denoted by a white line 5cm wide in the ground.
- ii) Pentathletes with a handicap after the previous events of more than 2 minutes will start in a pack start at 2'00".
- iii) The Combined Event has 5 starts. The handicap start at the beginning of the competition and the 4 different starts from the shooting line if the athletes do not succeed in the shooting series, after 50".
- iv) In the event of a false start from the shooting line the same rules for a false start will be applied: 10"penalty in the situation of a false start and disqualification in the case of a blatant attempt to start too early.
- v) The pentathletes are responsible for knowing their own start time, for being at the start line on time and for starting on time.
- vi) The Announcer will announce "10 minutes" and "5 minutes" prior to the start of the combined event; The Announcer, under the command of the Combined Director, will declare warming up on the shooting range finished; all the pentathletes must be at the start area and the Starter/Starter Assistants will begin lining up the pentathletes. One minute prior to the start, all the pentathletes must be at the corresponding gates and in the order of their start time.
- vii) The Starter will announce - **One minute to start**, thirty seconds, 20 and 10 seconds to the Start; After the OK has been given by the Timekeepers and the Combined Event Director, the Starter will tell the first pentathlete "**Take your Marks**", followed by the start signal; All timing equipment will start at the start signal; At the start area, there must be a start clock placed so that it is easily readable from the start line and from timekeepers; The start time for the first pentathlete will be 00.00. Pentathlete N° 1 starts at time 'zero'; pentathlete N° 2 starts at 'x' seconds depending on the handicap, and so on.
- viii) In Relay competitions the Handicap start is by using two gates but with two different starting lines (distance between the two lines 2,5m).



| HANDICAP START – RELAY | |
|--|----------------------------------|
| Men/Women, Senior, Junior, YA& YB | |
| Gate A | Gate B |
| Teams 1/3/5/7/9/11/13/15 | Teams 2/4/6/8/10/12/14/16 |
| Start line 0 for 0p. 4p. 8p. 12p. | Start line 0 for 4p. 8p. 12p. |
| 2,5 meters behind start line 0 | 2,5 meters behind start line 0 |
| *-2p (= 0.5 second) | *-2p (= 0.5 second) |
| Start line for 2p .6p. 10p. 14p | Start line for 2p .6p. 10p. 14p. |

- ix) The pentathletes must run a short distance ($\pm 20m$) to the shooting range and start the first shooting series of 5 targets.

5.4.3 False start

- The Starter/Announcer must immediately announce to the pentathlete and the spectators the pentathlete that has started too early and inform them of their false start.
- If a pentathlete starts late, they will not be penalised, but their time will be taken from the moment they should have started according to the start list.
- It is considered a false start if the athlete crosses the start line before his official start time. Before the start both feet must be behind the start line.

5.4.4 The Shooting Series

- Each pentathlete must always use his same shooting station. Each team must use always the same designated target(s).
- The pentathletes are responsible for shooting on the correct target. It is the athlete's responsibility to reset the mechanical targets.
- The pentathlete must stand with both feet on the ground, without support, completely within the shooting station. The entire pistol must be held and fired with one hand only. The unarmed hand must be lower than the athlete's diaphragm.
- With pellet pistol it is compulsory to load each shot with the pistol in contact with the shooting table; with laser pistol it is compulsory to touch with the pistol in the table between two shots.
- Only after successfully completing each shooting series, or elapsed 50", the pentathlete can start the running leg and return to the shooting position. After the last leg he must cross the running finish line.
- Malfunctions are not taken into consideration. Should a pistol cease to function, the pentathlete may use the reserve pistol or another cylinder that must have also been approved by the Equipment Control Section. If a shot has not fired due a malfunction, the pentathletes may use the reserve pistol without interrupting their competition. If the reserve pistol also does not work the pentathlete will be either eliminated or can wait at the shooting station until the 50" shooting time has expired before starting the running leg.

5.4.5 The Running Course Parts

- A pentathlete must follow the course from crossing the start line, passing the shooting range for each shooting series and cross the finish line.
- If informed by a Judge and announced by the sound system, the pentathlete must stop and remain in the Last Penalty Stop Area the indicated time.
- During the race no pentathlete is allowed to accept any physical assistance or refreshment. In exceptional circumstances this can be allowed and decided by the Pentathlon Director, Combined Director and Technical Delegate. The running of any other people with or behind a pentathlete qualifies as unauthorised assistance. A hands-on medical examination by official medical personnel during the progress of the event and verbal or other communication from a person who is not inside the course is not considered as unauthorised assistance.
- A pentathlete/team must complete the course.

5.4.6 The Finish

The last 50m shall be straight and well visible for TV cameras and spectators. The finish shall be denoted by a white line 5cm wide. The athletes shall be timed and placed in the



order in which any part of their torso, as distinguished from the head, neck, arms, legs, hands or feet reaches the vertical plane of the nearer edge of the finish line as defined above.

Athletes or coaches have 5 minutes time after the competition has ended to return to the range to tidy up and remove their weapons.

5.4.7 Timing

Times for all finishers shall be recorded. Three alternative methods of timekeeping are recognised as official: Manual Timing; Fully Automatic Timing obtained from a Photo Finish System; Timing provided by a Transponder System. In category A Senior UIPM competitions manual timing is not allowed.

When automatic judging and timing equipment is provided, it must be used to determine the winner, placing and times for each athlete. The results and time so determined has precedence over the decisions of Timekeepers. In the case of a breakdown or mechanical failure, the timekeepers' decisions will take precedence and reference must be made to all manual times recorded. In all UIPM Senior Category "A" Competitions video recording is compulsory at the finish line.

i) Manual Timing:

- a) The Timekeepers shall be in line with the finish and where possible.
- b) Timekeepers shall use manually operated electronic timers with digital readouts.
- c) Three official Timekeepers (one of whom shall be the Chief Timekeeper) shall time all the athletes.
- d) Each Timekeeper shall act independently and without showing his watch to, or discussing his time with, any other person, shall enter his time on the official form and, after signing it, hand it to the Chief Timekeeper who may examine the watches to verify the reported times.
- e) For all manually-timed races, times shall be read and recorded as an exact 1/10th of a second.
- f) If, after converting as indicated above, two of the three watches agree and the third disagrees, the time recorded by the two shall be the official time. If all three watches disagree, the middle time shall be official. If only two times are available and they disagree, the longer time shall be official.
- g) The Chief Timekeeper, acting in accordance with the Rules mentioned above, shall decide the official time for each athlete and provide the result for distribution.

ii) Fully Automatic Timing obtained from a Photo Finish System:

- a) Fully Automatic Timing and Photo Finish System approved by UIPM should be used at all Olympic Competitions. It shall be started automatically by the Starter.
- b) The System must record the finish through a camera with a vertical slit, positioned in the extension of the finish line, producing a continuous image. The image must also be synchronised with a uniformly marked time-scale graduated in 1/100th of a second.
- c) The placing of the athletes shall be identified from the image by means of a cursor with its reading line guaranteed to be perpendicular to the time scale.
- d) The System must automatically determine and record the finish times of the pentathlete and must be able to produce a printed image which shows the time of every pentathlete.
- e) There should be at least two photo finish cameras in action, one from each side. Preferably, these timing systems should be technically independent, i.e. with different power supplies and recording
- f) The Running Director shall determine the placing of the pentathlete and, as a consequence, their official times. He shall ensure that these results are correctly entered in or transferred to the competition results system and conveyed to the Results team.
- g) Times from Photo Finish System shall be regarded as official unless for any reason the appropriate official decides that they obviously must be inaccurate. If such is the case, the times of the back-up Timekeepers, if possible adjusted based on information on time intervals obtained from the Photo Finish image, shall be official. Such back-up Timekeepers must be appointed where any possibility exists of failure of the timing system.



- h) Times shall be read and recorded from the Photo Finish image as follows; the time shall be read to 1/100th of a second and recorded to 1/10th of a second.
- iii) Timing provided by a Transponder System:
- None of the equipment used at the start, along the course or at the finish line constitutes a significant obstacle or barrier to the progress of an athlete.
 - The weight of the transponder and its housing carried on the athletes' uniform, bib or shoe is not significant.
 - The System is started by the Starter's gun or synchronised with the start signal.
 - The System requires no action by an athlete during the competition, at the finish or at any stage in the result processing.
 - The resolution is 1/10th of a second (i.e. it can separate athletes finishing 1/10th of a second apart). For all races, the time shall be read to 1/10th of a second and recorded to the whole second.
 - When transponders are used on the feet the rule 5.7.5 still applies.

5.5 SCORING

2000 Modern Pentathlon points are awarded for obtaining the following times \pm 4 points for each second faster or slower.

| Age | Competition | | Individual | | Relay by 3 | | Relay by 2 | |
|-------------------------------|-------------|----------|------------|----------|------------|----------|------------|----------|
| | Distance | 2000 pts | Distance | 2000 pts | Distance | 2000 pts | Distance | 2000 pts |
| Senior, Junior, Under 19 (YA) | 3200m | 13'20" | 4800m | 20'00" | 3200m | 13'20" | | |
| Under 17 (YB) | 2400m | 10'30" | 4800 m | 20'00" | 3200 m | 13'20" | | |

5.6 INFRINGEMENTS AND PENALTIES

5.6.1 A pentathlete is penalised by a time penalty of **Ten Seconds** for each of the following offences:

- contravening clothing regulations;
- modifying the dimensions of the start numbers;
- false initial start;
- not placing the pistol safely on the table after the warming up ended and after each shooting series*;
- with pellet pistol, not loading each shot with the pistol in contact with the shooting table; with laser pistol, not touching the shooting table in between each shot*;
- if coaches during the warming up assist the pentathletes outside of the designated coaches area, first time warning; subsequent second time 10 seconds penalty;
- For the second time removing their pistol(s) from the box/case before the official warming up period has started. The first breach will result in a warning;
- starting the running leg before the shooting time has expired without having completed successfully each shooting series* (like initial false start)
- holding the unarmed hand higher than the athlete's diaphragm during the shot.
- shooting without air (each occasion)*

* These penalties are paid at the shooting range, with the exception of the final shooting series where they are paid in the Last Penalty Stop Area.

5.6.2 A pentathlete is **eliminated** for:

- Not completing the course;
- deviation, deliberate or not, from the course and in the opinion of the Course Judge gaining a material advantage;
- unauthorised assistance, if not disqualified, upon discretion of the Competition Jury;
- using an unapproved pistol;
- shooting in the wrong target;



- vi) not stopping at the last stop penalty area when instructed by an official;
- vii) using constant beam during the competition series and/or audio communication outside of preparation and warm up time.

5.6.3 A pentathlete is **disqualified** for:

- i) modifying or adjusting their officially approved pistol so that it violates the rules
- ii) exchanging their pistol in violation of the rules
- iii) a blatant attempt to start too early;
- iv) jostling, running across or obstructing another pentathlete so as to impede their progress.



Part B **INDIVIDUAL EQUIPMENT**

5.7 **CLOTHING**

- i) A pentathlete must wear athletic clothing.
- ii) The pentathlete must wear a top with their name clearly visible and professionally made on the back of the top, below which is the NF code, of a size between 7-12cm and in a contrasting colour to the colour of their shirt.
- iii) Pentathletes must compete with athletics shoes, with or without spikes. Any spikes restrictions must be advised by the LOC in their invitation letter.
- iv) The LOC is responsible for providing every pentathlete with two start numbers.
- v) The numbers must be worn on the chest and back and be visible in all weather conditions. Size 1 (maximum height 10cm and width 15cm) shall be worn on the Back and Size 2 (maximum height 20cm and width 20cm) on the Front.
- vi) The pentathlete or team who is in first place before the combined event shall be assigned the No. 1, the second place pentathlete/team, No. 2, and so on.
- vii) No pentathlete will be allowed to take part in a competition without the appropriate numbers.
- viii) It is forbidden for pentathletes to modify the dimensions (size and width) of the start numbers given by the LOC.
- ix) Wristbands, taping or similar items that might provide support to the shooting hand are prohibited on the hand, elbow and arm.
- x) A sport watch is permitted on the non-shooting hand.
- xi) Radios, tape recorders or any type of sound-producing or communication systems are prohibited. Only sound-reducing devices may be worn.
- xii) It is strongly recommended that the current Olympic and World Champions wear some item of clothing, vest or armband, which identifies to the spectators their Champion status.

5.8 **THE PISTOL**

5.8.1 **Pellet Pistol**

- i) Only single shot pistol is allowed without any form of magazine or clip.
- ii) Only calibre 4.5mm (.177") projectile made of lead or other soft material is permitted.
- iii) The weight of the pistol with all accessories must not exceed 1500 grams. For Masters, Seniors, Juniors and Under 19 (YA) competitions, the minimum total weight of the pistol is 1kg (tolerance 5%); for under 17 (YB) Competitions, the minimum weight of the pistol is 800 grams (tolerance 5%). The weight of the trigger pull must have a minimum of 500 grams.
- iv) The overall size of the pistol is limited to those dimensions which will permit it to be enclosed completely in a rectangle box having the inside dimensions of 420mm x 200mm x 50mm. A manufacturing tolerance of + 1.0mm in the dimensions of the box is permitted. The minimum overall size is 20% of the above dimensions (336mm x 160mm x 40mm) with the same tolerance.
- v) Ported barrels and performance barrel attachments for air pistols are allowed providing the pistols comply with all other requirements, including dimensions.
- vi) Only open sights are allowed. Optical, mirror, telescope, laser-beam, electronically projected dot sights etc. are prohibited. Any aiming device programmed to activate the firing mechanism is prohibited. No protective covering is permitted on front or rear sights.
- vii) No part of the grip or accessories may encircle the hand. The heel rest must extend at an angle not less than 90° to the grip. Any upward curvature of the heel and/or thumb rests and/or downward curvature of the side opposite the thumb is prohibited (see figure 2). The thumb support must allow the free upward vertical movement of the thumb. However, curved surfaces on the grips or frame, including the heel and/or thumb rest (see figures 3 and 4) in the longitudinal direction of the pistol are permitted.
- viii) A weight with a rubber or rubber knife-edge or a round configuration with rubber must be used. A roller on the trigger weight is not permitted. A dead weight must be used with no springs or other devices.



The weight of the trigger pull must be measured, with the test weight suspended near the middle of the trigger (see Figure 5) and the barrel held vertically. The weight must be placed on a horizontal surface and lifted clear of the surface. The tests must be conducted by the equipment control officials. The minimum weight of the trigger pull must be maintained throughout the competition. A maximum of three (3) attempts to lift the weight is allowed. If it does not pass it may only be re submitted after adjustment. The propellant gas/air must be discharged.

5.8.2 **Laser Pistol**

- i) The laser cartridge must carry the UIPM laser code inside a 30ms laser beam pulse, red colour (650nm).
- ii) Article 5.8.1 i), iii - viii apply.
- iii) The following item must also be checked by the Equipment Control Section:
 - a) Capability of vertical and horizontal aiming correction;
 - b) Laser beam triggered by air release (Dry Fire Mode not allowed);
 - c) Power of the laser beam (maximum class 2);
 - d) The time the laser beam is released from the pistol, after pushing the trigger, must be between 6ms and 10ms;
 - e) Wire and radio free.



PART C EQUIPMENT AND FACILITIES PROVIDED BY THE LOC

5.9 THE FOP

5.9.1 The Venue

- i) The combined event venue is the site on which the combined event competition is conducted, and consists of the combined event shooting range and the running course. LOC is responsible for providing a safe and acceptable Combined Event Course.
- ii) The venue must be technically suitable, according to these rules, to allow all the types of combined event competition to be held. It must offer the best possible viewing of the competitions to spectators, and fulfil all the requirements of TV coverage.

5.9.2 The Different Areas

- i) There must be the start/finish area, shooting range, last penalties stop area, relay hand-over zone, running course 800m lap, judges area, coaches area, media and photographers area, spectator areas, as well as buildings and offices necessary for the UIPM and LOC.
- ii) All the areas and most of the running course shall be located on level ground and close together, so as to provide good viewing of competition for the majority of the spectators but without permitting the spectators to access the restricted areas.
- iii) These areas and critical parts of the course must be fenced off in order to prevent pentathletes from being impeded or going off course and to prevent access by unauthorised persons. However, the height and extent of the fencing must be minimised as much as possible to avoid interference to TV coverage.
- iv) There must be sufficient space for pentathletes and competition officials to conduct their required activities and adequate room for team support staff, media, photographers and spectators, and enough space for TV camera crews and their broadcasting facilities without the broadcasting interfering with the competition.
- v) A sheltered area for the pentathletes must be provided by the LOC to protect them from the weather.
- vi) Zones for TV coverage of the competitions will be established on the course, in consultation with the LOC, the UIPM TD/NTO and TV advisor responsible for the event. The primary purpose of the zones shall be to ensure the best possible coverage of the competition and in particular to prevent obstruction of the TV image by non-competing persons.
- vii) Adjacent to the finish zone, a fenced-off area (Mixed Zone) has to be established for TV company representatives, media and photographers to have close contact with the competitors for interviews and pictures after they finish.
- viii) An exclusive seating area for VIPs and Sponsors must be located by the LOC in the place most appropriate for optimal viewing of the event.

5.9.3 The Running Course

- i) The course must be so clearly marked and defined that at no time a pentathlete is in doubt how to follow the course. The course can be laid out on any kind of surface or surfaces. It must be designed so that there is a minimum risk of injury to the pentathletes; therefore no sharp turns or steep declines must be included.
- ii) The maximum climb of the course is 50m.
- iii) The total climb is measured from perpendicular angle from the start area and adding together the total metres of climb from each level.
- iv) The last 50m of the course shall be straight and flat and the part of the course from the start line to the shooting place must be large enough to facilitate the start and the approach of the shooting positions.
- v) The course must be marked with a signpost at 400m.
- vi) The total course must be wide enough to permit two runners to pass each other at any point on the course.
- vii) The start and finish line must always be in the same area.
- viii) The course must be clearly marked with flags, tape and/or marks on the ground so that the direction of the course is always visible for the pentathletes. All angles on the courses in competitions category "A" and "B" have to be marked by a clearly visible tape



0.5-1m above the ground, 10m before and 10m after the corner. It is the obligation of the UIPM TD/NTO to check the course. At UIPM World Championships the course has to be marked by a clearly visible tape 0.5–0,7m above the ground on both sides of the course.

- ix) The start line and the finish line must be marked by a white line at least 5cm wide on the ground at the place of the start and the finish. It is recommended that a gantry (arch, gate, etc.), vertical poles or something similar also mark the start line and the finish line.
- x) In the Relay competition the start line and the finish line must be a minimum 5m wide. 10m on each side of the finish line must be set for a hand-over zone of 20m length. Thus the dimension of the zone will be 20m x minimum 5m. This zone must be clearly marked by demarcation lines.
- xi) The finish area behind the finish line must be large enough to permit the LOC to take care of the pentathletes having completed the course.
- xii) Access to the finish area with the timing device and timekeepers must be suitably restrictive so as not to allow access by pentathletes, media or spectators. Particular attention must be paid to the running shooting zone, to avoid collision between the pentathletes that enter the running course after the shooting phase.
- xiii) At all official UIPM Category “A” and “B” competitions a UIPM TD/NTO must inspect and validate the length and path of the course and make changes if necessary. At Olympic Games and World Championships, this inspection must take place at least two days before the start of the competition, in all other competitions, at least one day before the start of the competition.
- xiv) At least 30 minutes before the start, the course must be marked so it is possible to start the warming up.
- xv) At least 5 minutes before the start all necessary restrictions must be settled.

5.9.4 The Shooting Range Requirements

- i) The range can be indoor or outdoor and must be constructed so that direct sun does not disturb the pentathletes. The targets should be positioned so that the sun does not interfere directly with the registering of shots on the targets.
- ii) If the venue, the running course and the targets are sufficiently illuminated the Combined Event can be organized at night. (Picture 1)
- iii) The shooting range must be built in such a way it can guarantee the safety of the pentathletes, coaches, judges and spectators. The firing distance is 10 metres, measured from the firing lane to the target face. $\pm 0,05\text{m}$ is accepted as tolerance.
- iv) With pellet pistols the shooting range must be equipped with lateral walls covering the tops shooting positions. With laser pistols no lateral walls are required but access to the range by unapproved people must be in place.
- v) With pellet pistols the background area behind the targets must be non-reflecting, medium, neutral colour. With laser pistols no back wall is needed but access to the range by unapproved people must be in place.
- vi) If the weather forecast is predicted as bad the shooting range must protect the pentathletes from the rain using special roof coverage and a waterproof box to protect the pistols, water, towels and binoculars of the pentathletes located under the shooting table.
- vii) The shooting range must be prepared in such a way the spectators can enjoy the competition and watch the finish, so with the finish line near the shooting range.
- viii) During training, warm up and competition, competitors must enter the range from one side and exit the other side.
- ix) The shooting station must be marked with numbers of a minimum height 12cm, corresponding to the firing point number. Shooting station nr 1 must be the farthest away from the starting gates.
- x) The pentathlete shooting area (minimum 1m and maximum 2m wide X 1,5m deep minimum) must be clearly defined with visible ground painted lateral lines and back line (start line for each running leg). Paint of lateral lines can be replaced by tape or small advertising banner.
- xi) There must be sufficient space (minimum 4m) behind the firing points to allow the pentathletes, before and after each shooting series, to run to their shooting station without disturbing the other pentathletes and to permit the Range Officials and the UIPM TDs/NTOs to perform their duties.



- xii) Targets must be marked with numbers corresponding to their shooting station number. The numbers must have a minimum height of 25cm to be easily seen under normal shooting conditions with normal vision from the appropriate shooting station and from VIP area, public seats and TV cameras.
- xiii) The LOC must guarantee provision of 2 reserve spare targets, numbered S1 and S2. In case of insufficient number of targets for all the pentathletes, the combined event can be organised in two or more series with the top pentathletes competing in the last series.
- xiv) The targets and all the other equipments (target numbers, results displays, target covers, lights) must be fixed in such a manner that they have no appreciable movement.
- xv) The height of the target centre must be within the following height measured from level of the floor of the firing point:
 - a) Standard Height Variation: 1,40m +/- 0,05 m
 - b) Horizontal variation: 0,25 m.
- xvi) The firing point must be equipped with:
 - a) a table or bench, about 0,7m – 0,8m high. With laser pistol in the tabletop there should be a soft foam cushion provided by LOC (\pm A4 size, 8cm height recommended) to avoid disturbances on the system;
 - b) the table must have a protection for the pistol and the pellets in case of rain (waterproof box) or a place under the table;
 - c) With LPT the shooting position must be equipped with a transparent tabletop or with a waterproof transparent plastic box to protect the feedback device.
- xvii) Athletes shall maintain a tidy shooting bay with only essential equipment on the table.
- xviii) With Electronic and Laser targets an adequate uninterrupted power backup system allowing a minimum of 15 mn run of the system must be provided by LOC in case stadium/arena is not already equipped. The power cable must be 3*2,5mm 2 section with a waterproof box equipped with a 20A security. This box has to be fixed on the back side of the wall at 2m height.

5.10 OTHER EQUIPMENT

5.10.1 Target Requirements

- i) In UIPM Senior A Category competitions laser precision targets are mandatory.
- ii) Only targets approved by UIPM can be used at Category "A" and "B" competitions and PWR competitions.
- iii) All targets used at Senior Category A competitions must be able to provide a live data stream compliant with UIPM data shooting protocol.
- iv) All target models, except LPT, must be able to be used without any computer connection required.
- v) The colour of the target centre zone is black. The dimension of this area (Figure 11) is 59,5mm, with a tolerance of 0,5mm. Target surface must be white and of a non reflecting material so that the black aiming area (centre) is clearly visible under normal light conditions at the appropriate distances. The targets must work in all weather conditions including rain and direct sunlight.
- vi) With pellet targets only shots that are completely inside the 59,5mm valid zone (with the full perimeter) can be physically registered as "hit".
- vii) With laser hit targets, a shot that hits the black centre zone is a valid shot.
- viii) With laser precision targets a shot is valid if, after the automatic reconstruction of the calibre 4,5mm from the beam centre impact, hits 7,3 or more.

5.10.2 Mechanical target (MT) (see Figure 6)

- i) Mechanical falling targets consist of 5 black holes.
- ii) Basic mechanical target is of dimension: Length 42cm. Height 15cm Width 15cm.
- iii) The minimum distance between each hole is 8cm.
- iv) For correct function of the mechanical target, it is absolutely necessary to adjust the target with a level as if not exactly level the target could have a malfunction and generate wrong or irregular shooting results.
- v) The reset rope must be brought in a straight line to the pentathletes shooting table and fixed there for ease of use by the pentathlete or referee.



- vi) The white plastic surface must not be painted. The surface of the matrix might be painted

5.10.3 **Electronic Pellet Target (ET)** (see Figure 7)

- i) Electronic target consists of one black single aim. Connected to it is a 5 green/red lamps device to show the results.
- ii) Shooting zone - for competition, target (shooting zone) and indicators must be separated.
- iii) Target standard dimension: Minimum visible size of target card 170 mm x 170 mm.
- iv) The targets have to be fixed to a rack or wall (height 2.3m approx). If the wall is not in wood or plastic, then some fixation able to receive a screw of 6mm diameter must be prepared for each station at 1.30m and 2.10m height.
- v) The shooting time starts when the target is hit by the first bullet (valid or not).
- vi) ET input power must be in the range 90-240 AV. This box has to be fixed on the back side of the wall at 2 m height. A power system (minimum 750VA) must be provided by the LOC in case stadium/arena is not already equipped. Output power has to be less than 24V.
- vii) ET must be usable under all weather conditions, including sunny weather.

5.10.4 **Laser "HIT" Target (HT)** (see figure 8)

- i) In this type of target only the black zone 59,5mm (tolerance $\pm 0,5\text{mm}$) as a sensor. The technical requirements for this target are:
 - a) Max input 12V;
 - b) valid shots zone of 59,5mm diameter (tolerance $\pm 0,5\text{mm}$);
 - c) front target side mini 170mm * 170mm;
 - d) 0,5mm precision (concerns shots evaluated between valid and miss zones);
 - e) 20ms reaction time max;
 - f) 650nm wavelength beam detection;
- ii) Specific requirements for competition level B and C:
 - a) Laser encoded beam receiver (UIPM agreed encoding only);
 - b) able to handle laser encoding upgrade (possibility to change code for specific competition to increase security);
 - c) able to send data of shots (compliance to UIPM data protocol);
 - d) able to be used outdoor;
 - e) connection to external lights;
- iii) Specific requirements competition level development:
Able to work with any 650nm laser beam (support of laser encoding not required).

5.10.5 **Laser Precision Targets (LPT)** (see figure 9)

Mandatory in Senior A Category competitions.

- i) The technical requirements are:
 - a) Max input 24V;
 - b) 20ms reaction time max;
 - c) compliant with ISSF 10m target pistol draw;
 - d) timing and data independent from lights units.
- ii) Specific requirements to all level competitions:
 - a) Live display of shot possible on screen in 1/10 of ISSF units;
 - b) 0,5mm precision laser dot detection (it concerns the whole target);
 - c) able to send data of shots (X&Y Position of shot in 0,5mm units from centre compliance to UIPM data protocol);
 - d) able to be used outdoor;
 - e) connection to external lights;
 - f) external perturbation protected (external laser beam not coming from one athlete);
 - g) competition mode must block all possible settings (including access to operating system if any) and follow strictly UIPM competition rules.
- iii) The dimensions of all scoring rings are measured from the outside edges (outside diameter) of the scoring rings (see figure 11).



5.10.6 **Indicators (Results Display Lights)** (see Figure 10)

- i) Indicators Wavelength: Red colour must be 660nm and green colour 525nm. (+/- 5nm.) Indicators must be installed minimum 0,80cm up to the top of the target.
- ii) For "A" Category competitions, indicators must be 55mm diameter with minimum of 140° viewing angle.
- iii) For all other competitions, 55mm diameter or 26mm diameter with minimum 90° viewing angle. Background of the indicators must be a contrasting colour. Distance between each red/green lamp must be 40mm.
- iv) Indicators can be placed horizontally or vertically.



PENALTY TABLE

COMBINED EVENT

Appendix 5A

| OFFENCES | Rule | penalty | | |
|--|------------|------------------|------------|-----------|
| | | 1st time | Subsequent | Paid at * |
| Contravening clothing regulations | 5.6.1 i | 10" | | PG |
| Modifying dimensions of start numbers | 5.6.1 ii | 10" | | PG |
| False start | 5.6.1 iii | 10" | | SL |
| Not placing pistol safely on the table after warm up or shooting series | 5.6.1 iv | 10" | 10" | SL or LPA |
| Not loading each shot with the pistol in contact with the shooting table | 5.6.1 v | 10" | 10" | SL or LPA |
| Coaches assistance during warm up outside of the designated coaches area | 5.6.1.vi | Warning | 10" | PG |
| Not having the pistol in the box before the official warm up period has started | 5.6.1 vii | Warning | 10" | PG |
| Starting the running leg before the shooting time has expired without having successfully completed the shooting series ("5 green lights") | 5.6.1 viii | 10" | 10" | SL or LPA |
| Holding the unarmed hand higher than the athlete's diaphragm during shot | 5.6.1 ix | 10" | 10" | SL or LPA |
| Not completing the course | 5.6.2 i | Elimination | | |
| Deviation, deliberate or not, from the course | 5.6.2 ii | Elimination | | |
| Unauthorised assistance | 5.6.2 iii | Elimination | | |
| Using a non approved pistol | 5.6.2 iv | Elimination | | |
| Shooting on a wrong target | 5.6.2 v | Elimination | | |
| Not stopping at the last penalty area when instructed by an official | 5.6.2 vi | Elimination | | |
| Using constant beam during the competition series and or audio communication outside of preparation and warm up time. | 5.6.2 vii | Elimination | | |
| Modifying or adjusting the approved pistol | 5.6.3 i | Disqualification | | |
| Exchanging for a non approved pistol | 5.6.3 ii | Disqualification | | |
| Blatant attempt to start too early | 5.6.3 iii | Disqualification | | |
| Jostling, running across, obstructing other athlete | 5.6.3 iv | Disqualification | | |

* - Penalty Start Gate – PG; Shooting Line – SL; Last Penalty Area - LPA

The penalties for the offences of 5.6.1 iv and viii, if committed in 4th shooting series, will be paid in the Last penalty Area.



5.11 THE LOC CONTROL DEVICES AND TOOLS

5.11.1 Control Material

The clothing control is made by observation, using a ruler if necessary.

For the control of all kind of pistols (Part B, Art. 5.8) the LOC must have: box for dimensions, scale for the weight, trigger weight device, ruler, square, angle scale and a system to register and mark the approved pistols.

For the laser pistols and containers the LOC must also have instruments to check the laser beam - power, diameter and time - and the power of the battery.

5.11.2 Built Material and Tools

The LOC must have the needed material and tools to built, maintain and rebuilt the FOP as described in Part B (5.9 The FOP and 5.10 – Other Equipment). This includes measure tapes, measure ruler, measure wheel, hammers, tools and equipment to repair the ground, barriers, poles or posts, tape, ink, paintbrush, plastic cones, and so on.



**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B1
1/3**

**Individual: Seniors, Juniors, Under 19 (YA)
Mixed Relay 2 athletes: Seniors, Juniors, Under 19 (YA), Under 17
(YB)**

| min | pts | min | pts | min | pts | min | pts | min | Pts | min | pts |
|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|-------------|
| <u>10:00</u> | 2800 | <u>10:40</u> | 2640 | <u>11:20</u> | 2480 | <u>12:00</u> | 2320 | <u>12:40</u> | 2160 | <u>13:20</u> | 2000 |
| 10:01 | 2796 | 10:41 | 2636 | 11:21 | 2476 | 12:01 | 2316 | 12:41 | 2156 | 13:21 | 1996 |
| 10:02 | 2792 | 10:42 | 2632 | 11:22 | 2472 | 12:02 | 2312 | 12:42 | 2152 | 13:22 | 1992 |
| 10:03 | 2788 | 10:43 | 2628 | 11:23 | 2468 | 12:03 | 2308 | 12:43 | 2148 | 13:23 | 1988 |
| 10:04 | 2784 | 10:44 | 2624 | 11:24 | 2464 | 12:04 | 2304 | 12:44 | 2144 | 13:24 | 1984 |
| 10:05 | 2780 | 10:45 | 2620 | 11:25 | 2460 | 12:05 | 2300 | 12:45 | 2140 | 13:25 | 1980 |
| 10:06 | 2776 | 10:46 | 2616 | 11:26 | 2456 | 12:06 | 2296 | 12:46 | 2136 | 13:26 | 1976 |
| 10:07 | 2772 | 10:47 | 2612 | 11:27 | 2452 | 12:07 | 2292 | 12:47 | 2132 | 13:27 | 1972 |
| 10:08 | 2768 | 10:48 | 2608 | 11:28 | 2448 | 12:08 | 2288 | 12:48 | 2128 | 13:28 | 1968 |
| 10:09 | 2764 | 10:49 | 2604 | 11:29 | 2444 | 12:09 | 2284 | 12:49 | 2124 | 13:29 | 1964 |
| <u>10:10</u> | 2760 | <u>10:50</u> | 2600 | <u>11:30</u> | 2440 | <u>12:10</u> | 2280 | <u>12:50</u> | 2120 | <u>13:30</u> | 1960 |
| 10:11 | 2756 | 10:51 | 2596 | 11:31 | 2436 | 12:11 | 2276 | 12:51 | 2116 | 13:31 | 1956 |
| 10:12 | 2752 | 10:52 | 2592 | 11:32 | 2432 | 12:12 | 2272 | 12:52 | 2112 | 13:32 | 1952 |
| 10:13 | 2748 | 10:53 | 2588 | 11:33 | 2428 | 12:13 | 2268 | 12:53 | 2108 | 13:33 | 1948 |
| 10:14 | 2744 | 10:54 | 2584 | 11:34 | 2424 | 12:14 | 2264 | 12:54 | 2104 | 13:34 | 1944 |
| 10:15 | 2740 | 10:55 | 2580 | 11:35 | 2420 | 12:15 | 2260 | 12:55 | 2100 | 13:35 | 1940 |
| 10:16 | 2736 | 10:56 | 2576 | 11:36 | 2416 | 12:16 | 2256 | 12:56 | 2096 | 13:36 | 1936 |
| 10:17 | 2732 | 10:57 | 2572 | 11:37 | 2412 | 12:17 | 2252 | 12:57 | 2092 | 13:37 | 1932 |
| 10:18 | 2728 | 10:58 | 2568 | 11:38 | 2408 | 12:18 | 2248 | 12:58 | 2088 | 13:38 | 1928 |
| 10:19 | 2724 | 10:59 | 2564 | 11:39 | 2404 | 12:19 | 2244 | 12:59 | 2084 | 13:39 | 1924 |
| <u>10:20</u> | 2720 | <u>11:00</u> | 2560 | <u>11:40</u> | 2400 | <u>12:20</u> | 2240 | <u>13:00</u> | 2080 | <u>13:40</u> | 1920 |
| 10:21 | 2716 | 11:01 | 2556 | 11:41 | 2396 | 12:21 | 2236 | 13:01 | 2076 | 13:41 | 1916 |
| 10:22 | 2712 | 11:02 | 2552 | 11:42 | 2392 | 12:22 | 2232 | 13:02 | 2072 | 13:42 | 1912 |
| 10:23 | 2708 | 11:03 | 2548 | 11:43 | 2388 | 12:23 | 2228 | 13:03 | 2068 | 13:43 | 1908 |
| 10:24 | 2704 | 11:04 | 2544 | 11:44 | 2384 | 12:24 | 2224 | 13:04 | 2064 | 13:44 | 1904 |
| 10:25 | 2700 | 11:05 | 2540 | 11:45 | 2380 | 12:25 | 2220 | 13:05 | 2060 | 13:45 | 1900 |
| 10:26 | 2696 | 11:06 | 2536 | 11:46 | 2376 | 12:26 | 2216 | 13:06 | 2056 | 13:46 | 1896 |
| 10:27 | 2692 | 11:07 | 2532 | 11:47 | 2372 | 12:27 | 2212 | 13:07 | 2052 | 13:47 | 1892 |
| 10:28 | 2688 | 11:08 | 2528 | 11:48 | 2368 | 12:28 | 2208 | 13:08 | 2048 | 13:48 | 1888 |
| 10:29 | 2684 | 11:09 | 2524 | 11:49 | 2364 | 12:29 | 2204 | 13:09 | 2044 | 13:49 | 1884 |
| <u>10:30</u> | 2680 | <u>11:10</u> | 2520 | <u>11:50</u> | 2360 | <u>12:30</u> | 2200 | <u>13:10</u> | 2040 | <u>13:50</u> | 1880 |
| 10:31 | 2676 | 11:11 | 2516 | 11:51 | 2356 | 12:31 | 2196 | 13:11 | 2036 | 13:51 | 1876 |
| 10:32 | 2672 | 11:12 | 2512 | 11:52 | 2352 | 12:32 | 2192 | 13:12 | 2032 | 13:52 | 1872 |
| 10:33 | 2668 | 11:13 | 2508 | 11:53 | 2348 | 12:33 | 2188 | 13:13 | 2028 | 13:53 | 1868 |



| | | | | | | | | | | | |
|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 10:34 | 2664 | 11:14 | 2504 | 11:54 | 2344 | 12:34 | 2184 | 13:14 | 2024 | 13:54 | 1864 |
| 10:35 | 2660 | 11:15 | 2500 | 11:55 | 2340 | 12:35 | 2180 | 13:15 | 2020 | 13:55 | 1860 |
| 10:36 | 2656 | 11:16 | 2496 | 11:56 | 2336 | 12:36 | 2176 | 13:16 | 2016 | 13:56 | 1856 |
| 10:37 | 2652 | 11:17 | 2492 | 11:57 | 2332 | 12:37 | 2172 | 13:17 | 2012 | 13:57 | 1852 |
| 10:38 | 2648 | 11:18 | 2488 | 11:58 | 2328 | 12:38 | 2168 | 13:18 | 2008 | 13:58 | 1848 |
| 10:39 | 2644 | 11:19 | 2484 | 11:59 | 2324 | 12:39 | 2164 | 13:19 | 2004 | 13:59 | 1844 |

**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B1
2/3**

Individual: Seniors, Juniors, Under 19 (YA)

Mixed Relay 2 athletes: Seniors, Juniors, Under 19 (YA), Under 17 (YB)

| min | pts | min | pts | min | pts | min | pts | min | Pts | min | pts |
|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| <u>14:00</u> | 1840 | <u>14:40</u> | 1680 | <u>15:20</u> | 1520 | <u>16:00</u> | 1360 | <u>16:40</u> | 1200 | <u>17:20</u> | 1040 |
| 14:01 | 1836 | 14:41 | 1676 | 15:21 | 1516 | 16:01 | 1356 | 16:41 | 1196 | 17:21 | 1036 |
| 14:02 | 1832 | 14:42 | 1672 | 15:22 | 1512 | 16:02 | 1352 | 16:42 | 1192 | 17:22 | 1032 |
| 14:03 | 1828 | 14:43 | 1668 | 15:23 | 1508 | 16:03 | 1348 | 16:43 | 1188 | 17:23 | 1028 |
| 14:04 | 1824 | 14:44 | 1664 | 15:24 | 1504 | 16:04 | 1344 | 16:44 | 1184 | 17:24 | 1024 |
| 14:05 | 1820 | 14:45 | 1660 | 15:25 | 1500 | 16:05 | 1340 | 16:45 | 1180 | 17:25 | 1020 |
| 14:06 | 1816 | 14:46 | 1656 | 15:26 | 1496 | 16:06 | 1336 | 16:46 | 1176 | 17:26 | 1016 |
| 14:07 | 1812 | 14:47 | 1652 | 15:27 | 1492 | 16:07 | 1332 | 16:47 | 1172 | 17:27 | 1012 |
| 14:08 | 1808 | 14:48 | 1648 | 15:28 | 1488 | 16:08 | 1328 | 16:48 | 1168 | 17:28 | 1008 |
| 14:09 | 1804 | 14:49 | 1644 | 15:29 | 1484 | 16:09 | 1324 | 16:49 | 1164 | 17:29 | 1004 |
| <u>14:10</u> | 1800 | <u>14:50</u> | 1640 | <u>15:30</u> | 1480 | <u>16:10</u> | 1320 | <u>16:50</u> | 1160 | <u>17:30</u> | 1000 |
| 14:11 | 1796 | 14:51 | 1636 | 15:31 | 1476 | 16:11 | 1316 | 16:51 | 1156 | 17:31 | 996 |
| 14:12 | 1792 | 14:52 | 1632 | 15:32 | 1472 | 16:12 | 1312 | 16:52 | 1152 | 17:32 | 992 |
| 14:13 | 1788 | 14:53 | 1628 | 15:33 | 1468 | 16:13 | 1308 | 16:53 | 1148 | 17:33 | 988 |
| 14:14 | 1784 | 14:54 | 1624 | 15:34 | 1464 | 16:14 | 1304 | 16:54 | 1144 | 17:34 | 984 |
| 14:15 | 1780 | 14:55 | 1620 | 15:35 | 1460 | 16:15 | 1300 | 16:55 | 1140 | 17:35 | 980 |
| 14:16 | 1776 | 14:56 | 1616 | 15:36 | 1456 | 16:16 | 1296 | 16:56 | 1136 | 17:36 | 976 |
| 14:17 | 1772 | 14:57 | 1612 | 15:37 | 1452 | 16:17 | 1292 | 16:57 | 1132 | 17:37 | 972 |
| 14:18 | 1768 | 14:58 | 1608 | 15:38 | 1448 | 16:18 | 1288 | 16:58 | 1128 | 17:38 | 968 |
| 14:19 | 1764 | 14:59 | 1604 | 15:39 | 1444 | 16:19 | 1284 | 16:59 | 1124 | 17:39 | 964 |
| <u>14:20</u> | 1760 | <u>15:00</u> | 1600 | <u>15:40</u> | 1440 | <u>16:20</u> | 1280 | <u>17:00</u> | 1120 | <u>17:40</u> | 960 |
| 14:21 | 1756 | 15:01 | 1596 | 15:41 | 1436 | 16:21 | 1276 | 17:01 | 1116 | 17:41 | 956 |
| 14:22 | 1752 | 15:02 | 1592 | 15:42 | 1432 | 16:22 | 1272 | 17:02 | 1112 | 17:42 | 952 |
| 14:23 | 1748 | 15:03 | 1588 | 15:43 | 1428 | 16:23 | 1268 | 17:03 | 1108 | 17:43 | 948 |
| 14:24 | 1744 | 15:04 | 1584 | 15:44 | 1424 | 16:24 | 1264 | 17:04 | 1104 | 17:44 | 944 |
| 14:25 | 1740 | 15:05 | 1580 | 15:45 | 1420 | 16:25 | 1260 | 17:05 | 1100 | 17:45 | 940 |
| 14:26 | 1736 | 15:06 | 1576 | 15:46 | 1416 | 16:26 | 1256 | 17:06 | 1096 | 17:46 | 936 |
| 14:27 | 1732 | 15:07 | 1572 | 15:47 | 1412 | 16:27 | 1252 | 17:07 | 1092 | 17:47 | 932 |
| 14:28 | 1728 | 15:08 | 1568 | 15:48 | 1408 | 16:28 | 1248 | 17:08 | 1088 | 17:48 | 928 |
| 14:29 | 1724 | 15:09 | 1564 | 15:49 | 1404 | 16:29 | 1244 | 17:09 | 1084 | 17:49 | 924 |



| | | | | | | | | | | | |
|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|-----|
| <u>14:30</u> | 1720 | <u>15:10</u> | 1560 | <u>15:50</u> | 1400 | <u>16:30</u> | 1240 | <u>17:10</u> | 1080 | <u>17:50</u> | 920 |
| 14:31 | 1716 | 15:11 | 1556 | 15:51 | 1396 | 16:31 | 1236 | 17:11 | 1076 | 17:51 | 916 |
| 14:32 | 1712 | 15:12 | 1552 | 15:52 | 1392 | 16:32 | 1232 | 17:12 | 1072 | 17:52 | 912 |
| 14:33 | 1708 | 15:13 | 1548 | 15:53 | 1388 | 16:33 | 1228 | 17:13 | 1068 | 17:53 | 908 |
| 14:34 | 1704 | 15:14 | 1544 | 15:54 | 1384 | 16:34 | 1224 | 17:14 | 1064 | 17:54 | 904 |
| 14:35 | 1700 | 15:15 | 1540 | 15:55 | 1380 | 16:35 | 1220 | 17:15 | 1060 | 17:55 | 900 |
| 14:36 | 1696 | 15:16 | 1536 | 15:56 | 1376 | 16:36 | 1216 | 17:16 | 1056 | 17:56 | 896 |
| 14:37 | 1692 | 15:17 | 1532 | 15:57 | 1372 | 16:37 | 1212 | 17:17 | 1052 | 17:57 | 892 |
| 14:38 | 1688 | 15:18 | 1528 | 15:58 | 1368 | 16:38 | 1208 | 17:18 | 1048 | 17:58 | 888 |
| 14:39 | 1684 | 15:19 | 1524 | 15:59 | 1364 | 16:39 | 1204 | 17:19 | 1044 | 17:59 | 884 |

**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B1
3/3**

Individual: Seniors, Juniors, Under 19 (YA)

Mixed Relay 2 athletes: Seniors, Juniors, Under 19 (YA), Under 17 (YB)

| min | pts | min | pts | min | pts | min | pts | min | Pts | min | pts |
|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| <u>18:00</u> | 880 | <u>18:40</u> | 720 | <u>19:20</u> | 560 | <u>20:00</u> | 400 | <u>20:40</u> | 240 | <u>21:20</u> | 80 |
| 18:01 | 876 | 18:41 | 716 | 19:21 | 556 | 20:01 | 396 | 20:41 | 236 | 21:21 | 76 |
| 18:02 | 872 | 18:42 | 712 | 19:22 | 552 | 20:02 | 392 | 20:42 | 232 | 21:22 | 72 |
| 18:03 | 868 | 18:43 | 708 | 19:23 | 548 | 20:03 | 388 | 20:43 | 228 | 21:23 | 68 |
| 18:04 | 864 | 18:44 | 704 | 19:24 | 544 | 20:04 | 384 | 20:44 | 224 | 21:24 | 64 |
| 18:05 | 860 | 18:45 | 700 | 19:25 | 540 | 20:05 | 380 | 20:45 | 220 | 21:25 | 60 |
| 18:06 | 856 | 18:46 | 696 | 19:26 | 536 | 20:06 | 376 | 20:46 | 216 | 21:26 | 56 |
| 18:07 | 852 | 18:47 | 692 | 19:27 | 532 | 20:07 | 372 | 20:47 | 212 | 21:27 | 52 |
| 18:08 | 848 | 18:48 | 688 | 19:28 | 528 | 20:08 | 368 | 20:48 | 208 | 21:28 | 48 |
| 18:09 | 844 | 18:49 | 684 | 19:29 | 524 | 20:09 | 364 | 20:49 | 204 | 21:29 | 44 |
| <u>18:10</u> | 840 | <u>18:50</u> | 680 | <u>19:30</u> | 520 | <u>20:10</u> | 360 | <u>20:50</u> | 200 | <u>21:30</u> | 40 |
| 18:11 | 836 | 18:51 | 676 | 19:31 | 516 | 20:11 | 356 | 20:51 | 196 | 21:31 | 36 |
| 18:12 | 832 | 18:52 | 672 | 19:32 | 512 | 20:12 | 352 | 20:52 | 192 | 21:32 | 32 |
| 18:13 | 828 | 18:53 | 668 | 19:33 | 508 | 20:13 | 348 | 20:53 | 188 | 21:33 | 28 |
| 18:14 | 824 | 18:54 | 664 | 19:34 | 504 | 20:14 | 344 | 20:54 | 184 | 21:34 | 24 |
| 18:15 | 820 | 18:55 | 660 | 19:35 | 500 | 20:15 | 340 | 20:55 | 180 | 21:35 | 20 |
| 18:16 | 816 | 18:56 | 656 | 19:36 | 496 | 20:16 | 336 | 20:56 | 176 | 21:36 | 16 |
| 18:17 | 812 | 18:57 | 652 | 19:37 | 492 | 20:17 | 332 | 20:57 | 172 | 21:37 | 12 |
| 18:18 | 808 | 18:58 | 648 | 19:38 | 488 | 20:18 | 328 | 20:58 | 168 | 21:38 | 8 |
| 18:19 | 804 | 18:59 | 644 | 19:39 | 484 | 20:19 | 324 | 20:59 | 164 | 21:39 | 4 |
| <u>18:20</u> | 800 | <u>19:00</u> | 640 | <u>19:40</u> | 480 | <u>20:20</u> | 320 | <u>21:00</u> | 160 | <u>21:40</u> | 0 |
| 18:21 | 796 | 19:01 | 636 | 19:41 | 476 | 20:21 | 316 | 21:01 | 156 | | |
| 18:22 | 792 | 19:02 | 632 | 19:42 | 472 | 20:22 | 312 | 21:02 | 152 | | |
| 18:23 | 788 | 19:03 | 628 | 19:43 | 468 | 20:23 | 308 | 21:03 | 148 | | |
| 18:24 | 784 | 19:04 | 624 | 19:44 | 464 | 20:24 | 304 | 21:04 | 144 | | |
| 18:25 | 780 | 19:05 | 620 | 19:45 | 460 | 20:25 | 300 | 21:05 | 140 | | |



| | | | | | | | | | |
|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| 18:26 | 776 | 19:06 | 616 | 19:46 | 456 | 20:26 | 296 | 21:06 | 136 |
| 18:27 | 772 | 19:07 | 612 | 19:47 | 452 | 20:27 | 292 | 21:07 | 132 |
| 18:28 | 768 | 19:08 | 608 | 19:48 | 448 | 20:28 | 288 | 21:08 | 128 |
| 18:29 | 764 | 19:09 | 604 | 19:49 | 444 | 20:29 | 284 | 21:09 | 124 |
| <u>18:30</u> | 760 | <u>19:10</u> | 600 | <u>19:50</u> | 440 | <u>20:30</u> | 280 | <u>21:10</u> | 120 |
| 18:31 | 756 | 19:11 | 596 | 19:51 | 436 | 20:31 | 276 | 21:11 | 116 |
| 18:32 | 752 | 19:12 | 592 | 19:52 | 432 | 20:32 | 272 | 21:12 | 112 |
| 18:33 | 748 | 19:13 | 588 | 19:53 | 428 | 20:33 | 268 | 21:13 | 108 |
| 18:34 | 744 | 19:14 | 584 | 19:54 | 424 | 20:34 | 264 | 21:14 | 104 |
| 18:35 | 740 | 19:15 | 580 | 19:55 | 420 | 20:35 | 260 | 21:15 | 100 |
| 18:36 | 736 | 19:16 | 576 | 19:56 | 416 | 20:36 | 256 | 21:16 | 96 |
| 18:37 | 732 | 19:17 | 572 | 19:57 | 412 | 20:37 | 252 | 21:17 | 92 |
| 18:38 | 728 | 19:18 | 568 | 19:58 | 408 | 20:38 | 248 | 21:18 | 88 |
| 18:39 | 724 | 19:19 | 564 | 19:59 | 404 | 20:39 | 244 | 21:19 | 84 |



**POINTS
TABLE**

**COMBINED EVENT
Individual: Under 17 (YB)**

**Appendix
5B2
1/3**

| min | pts | min | pts | min | pts | min | pts | min | Pts | min | pts |
|--------------|------|--------------|------|--------------|------|--------------|-------------|--------------|------|--------------|------|
| <u>08:30</u> | 2480 | <u>09:10</u> | 2320 | <u>09:50</u> | 2160 | <u>10:30</u> | 2000 | <u>11:10</u> | 1840 | <u>11:50</u> | 1680 |
| 08:31 | 2476 | 09:11 | 2316 | 09:51 | 2156 | 10:31 | 1996 | 11:11 | 1836 | 11:51 | 1676 |
| 08:32 | 2472 | 09:12 | 2312 | 09:52 | 2152 | 10:32 | 1992 | 11:12 | 1832 | 11:52 | 1672 |
| 08:33 | 2468 | 09:13 | 2308 | 09:53 | 2148 | 10:33 | 1988 | 11:13 | 1828 | 11:53 | 1668 |
| 08:34 | 2464 | 09:14 | 2304 | 09:54 | 2144 | 10:34 | 1984 | 11:14 | 1824 | 11:54 | 1664 |
| 08:35 | 2460 | 09:15 | 2300 | 09:55 | 2140 | 10:35 | 1980 | 11:15 | 1820 | 11:55 | 1660 |
| 08:36 | 2456 | 09:16 | 2296 | 09:56 | 2136 | 10:36 | 1976 | 11:16 | 1816 | 11:56 | 1656 |
| 08:37 | 2452 | 09:17 | 2292 | 09:57 | 2132 | 10:37 | 1972 | 11:17 | 1812 | 11:57 | 1652 |
| 08:38 | 2448 | 09:18 | 2288 | 09:58 | 2128 | 10:38 | 1968 | 11:18 | 1808 | 11:58 | 1648 |
| 08:39 | 2444 | 09:19 | 2284 | 09:59 | 2124 | 10:39 | 1964 | 11:19 | 1804 | 11:59 | 1644 |
| <u>08:40</u> | 2440 | <u>09:20</u> | 2280 | <u>10:00</u> | 2120 | <u>10:40</u> | 1960 | <u>11:20</u> | 1800 | <u>12:00</u> | 1640 |
| 08:41 | 2436 | 09:21 | 2276 | 10:01 | 2116 | 10:41 | 1956 | 11:21 | 1796 | 12:01 | 1636 |
| 08:42 | 2432 | 09:22 | 2272 | 10:02 | 2112 | 10:42 | 1952 | 11:22 | 1792 | 12:02 | 1632 |
| 08:43 | 2428 | 09:23 | 2268 | 10:03 | 2108 | 10:43 | 1948 | 11:23 | 1788 | 12:03 | 1628 |
| 08:44 | 2424 | 09:24 | 2264 | 10:04 | 2104 | 10:44 | 1944 | 11:24 | 1784 | 12:04 | 1624 |
| 08:45 | 2420 | 09:25 | 2260 | 10:05 | 2100 | 10:45 | 1940 | 11:25 | 1780 | 12:05 | 1620 |
| 08:46 | 2416 | 09:26 | 2256 | 10:06 | 2096 | 10:46 | 1936 | 11:26 | 1776 | 12:06 | 1616 |
| 08:47 | 2412 | 09:27 | 2252 | 10:07 | 2092 | 10:47 | 1932 | 11:27 | 1772 | 12:07 | 1612 |
| 08:48 | 2408 | 09:28 | 2248 | 10:08 | 2088 | 10:48 | 1928 | 11:28 | 1768 | 12:08 | 1608 |
| 08:49 | 2404 | 09:29 | 2244 | 10:09 | 2084 | 10:49 | 1924 | 11:29 | 1764 | 12:09 | 1604 |
| <u>08:50</u> | 2400 | <u>09:30</u> | 2240 | <u>10:10</u> | 2080 | <u>10:50</u> | 1920 | <u>11:30</u> | 1760 | <u>12:10</u> | 1600 |
| 08:51 | 2396 | 09:31 | 2236 | 10:11 | 2076 | 10:51 | 1916 | 11:31 | 1756 | 12:11 | 1596 |
| 08:52 | 2392 | 09:32 | 2232 | 10:12 | 2072 | 10:52 | 1912 | 11:32 | 1752 | 12:12 | 1592 |
| 08:53 | 2388 | 09:33 | 2228 | 10:13 | 2068 | 10:53 | 1908 | 11:33 | 1748 | 12:13 | 1588 |
| 08:54 | 2384 | 09:34 | 2224 | 10:14 | 2064 | 10:54 | 1904 | 11:34 | 1744 | 12:14 | 1584 |
| 08:55 | 2380 | 09:35 | 2220 | 10:15 | 2060 | 10:55 | 1900 | 11:35 | 1740 | 12:15 | 1580 |
| 08:56 | 2376 | 09:36 | 2216 | 10:16 | 2056 | 10:56 | 1896 | 11:36 | 1736 | 12:16 | 1576 |
| 08:57 | 2372 | 09:37 | 2212 | 10:17 | 2052 | 10:57 | 1892 | 11:37 | 1732 | 12:17 | 1572 |
| 08:58 | 2368 | 09:38 | 2208 | 10:18 | 2048 | 10:58 | 1888 | 11:38 | 1728 | 12:18 | 1568 |
| 08:59 | 2364 | 09:39 | 2204 | 10:19 | 2044 | 10:59 | 1884 | 11:39 | 1724 | 12:19 | 1564 |
| <u>09:00</u> | 2360 | <u>09:40</u> | 2200 | <u>10:20</u> | 2040 | <u>11:00</u> | 1880 | <u>11:40</u> | 1720 | <u>12:20</u> | 1560 |
| 09:01 | 2356 | 09:41 | 2196 | 10:21 | 2036 | 11:01 | 1876 | 11:41 | 1716 | 12:21 | 1556 |
| 09:02 | 2352 | 09:42 | 2192 | 10:22 | 2032 | 11:02 | 1872 | 11:42 | 1712 | 12:22 | 1552 |
| 09:03 | 2348 | 09:43 | 2188 | 10:23 | 2028 | 11:03 | 1868 | 11:43 | 1708 | 12:23 | 1548 |
| 09:04 | 2344 | 09:44 | 2184 | 10:24 | 2024 | 11:04 | 1864 | 11:44 | 1704 | 12:24 | 1544 |
| 09:05 | 2340 | 09:45 | 2180 | 10:25 | 2020 | 11:05 | 1860 | 11:45 | 1700 | 12:25 | 1540 |
| 09:06 | 2336 | 09:46 | 2176 | 10:26 | 2016 | 11:06 | 1856 | 11:46 | 1696 | 12:26 | 1536 |
| 09:07 | 2332 | 09:47 | 2172 | 10:27 | 2012 | 11:07 | 1852 | 11:47 | 1692 | 12:27 | 1532 |



| | | | | | | | | | | | |
|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 09:08 | 2328 | 09:48 | 2168 | 10:28 | 2008 | 11:08 | 1848 | 11:48 | 1688 | 12:28 | 1528 |
| 09:09 | 2324 | 09:49 | 2164 | 10:29 | 2004 | 11:09 | 1844 | 11:49 | 1684 | 12:29 | 1524 |

**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B3
1/3**

Relay 3 athletes: Seniors, Juniors, Under 19 (YA), Under 17 (YB)

| min | pts | min | pts | min | pts | min | pts | min | pts | min | pts |
|--------------|------|--------------|------|--------------|------|--------------|-------------|--------------|------|--------------|------|
| <u>18:00</u> | 2480 | <u>18:40</u> | 2320 | <u>19:20</u> | 2160 | <u>20:00</u> | 2000 | <u>20:40</u> | 1840 | <u>21:20</u> | 1680 |
| 18:01 | 2476 | 18:41 | 2316 | 19:21 | 2156 | 20:01 | 1996 | 20:41 | 1836 | 21:21 | 1676 |
| 18:02 | 2472 | 18:42 | 2312 | 19:22 | 2152 | 20:02 | 1992 | 20:42 | 1832 | 21:22 | 1672 |
| 18:03 | 2468 | 18:43 | 2308 | 19:23 | 2148 | 20:03 | 1988 | 20:43 | 1828 | 21:23 | 1668 |
| 18:04 | 2464 | 18:44 | 2304 | 19:24 | 2144 | 20:04 | 1984 | 20:44 | 1824 | 21:24 | 1664 |
| 18:05 | 2460 | 18:45 | 2300 | 19:25 | 2140 | 20:05 | 1980 | 20:45 | 1820 | 21:25 | 1660 |
| 18:06 | 2456 | 18:46 | 2296 | 19:26 | 2136 | 20:06 | 1976 | 20:46 | 1816 | 21:26 | 1656 |
| 18:07 | 2452 | 18:47 | 2292 | 19:27 | 2132 | 20:07 | 1972 | 20:47 | 1812 | 21:27 | 1652 |
| 18:08 | 2448 | 18:48 | 2288 | 19:28 | 2128 | 20:08 | 1968 | 20:48 | 1808 | 21:28 | 1648 |
| 18:09 | 2444 | 18:49 | 2284 | 19:29 | 2124 | 20:09 | 1964 | 20:49 | 1804 | 21:29 | 1644 |
| <u>18:10</u> | 2440 | <u>18:50</u> | 2280 | <u>19:30</u> | 2120 | <u>20:10</u> | 1960 | <u>20:50</u> | 1800 | <u>21:30</u> | 1640 |
| 18:11 | 2436 | 18:51 | 2276 | 19:31 | 2116 | 20:11 | 1956 | 20:51 | 1796 | 21:31 | 1636 |
| 18:12 | 2432 | 18:52 | 2272 | 19:32 | 2112 | 20:12 | 1952 | 20:52 | 1792 | 21:32 | 1632 |
| 18:13 | 2428 | 18:53 | 2268 | 19:33 | 2108 | 20:13 | 1948 | 20:53 | 1788 | 21:33 | 1628 |
| 18:14 | 2424 | 18:54 | 2264 | 19:34 | 2104 | 20:14 | 1944 | 20:54 | 1784 | 21:34 | 1624 |
| 18:15 | 2420 | 18:55 | 2260 | 19:35 | 2100 | 20:15 | 1940 | 20:55 | 1780 | 21:35 | 1620 |
| 18:16 | 2416 | 18:56 | 2256 | 19:36 | 2096 | 20:16 | 1936 | 20:56 | 1776 | 21:36 | 1616 |
| 18:17 | 2412 | 18:57 | 2252 | 19:37 | 2092 | 20:17 | 1932 | 20:57 | 1772 | 21:37 | 1612 |
| 18:18 | 2408 | 18:58 | 2248 | 19:38 | 2088 | 20:18 | 1928 | 20:58 | 1768 | 21:38 | 1608 |
| 18:19 | 2404 | 18:59 | 2244 | 19:39 | 2084 | 20:19 | 1924 | 20:59 | 1764 | 21:39 | 1604 |
| <u>18:20</u> | 2400 | <u>19:00</u> | 2240 | <u>19:40</u> | 2080 | <u>20:20</u> | 1920 | <u>21:00</u> | 1760 | <u>21:40</u> | 1600 |
| 18:21 | 2396 | 19:01 | 2236 | 19:41 | 2076 | 20:21 | 1916 | 21:01 | 1756 | 21:41 | 1596 |
| 18:22 | 2392 | 19:02 | 2232 | 19:42 | 2072 | 20:22 | 1912 | 21:02 | 1752 | 21:42 | 1592 |
| 18:23 | 2388 | 19:03 | 2228 | 19:43 | 2068 | 20:23 | 1908 | 21:03 | 1748 | 21:43 | 1588 |
| 18:24 | 2384 | 19:04 | 2224 | 19:44 | 2064 | 20:24 | 1904 | 21:04 | 1744 | 21:44 | 1584 |
| 18:25 | 2380 | 19:05 | 2220 | 19:45 | 2060 | 20:25 | 1900 | 21:05 | 1740 | 21:45 | 1580 |
| 18:26 | 2376 | 19:06 | 2216 | 19:46 | 2056 | 20:26 | 1896 | 21:06 | 1736 | 21:46 | 1576 |
| 18:27 | 2372 | 19:07 | 2212 | 19:47 | 2052 | 20:27 | 1892 | 21:07 | 1732 | 21:47 | 1572 |
| 18:28 | 2368 | 19:08 | 2208 | 19:48 | 2048 | 20:28 | 1888 | 21:08 | 1728 | 21:48 | 1568 |
| 18:29 | 2364 | 19:09 | 2204 | 19:49 | 2044 | 20:29 | 1884 | 21:09 | 1724 | 21:49 | 1564 |
| <u>18:30</u> | 2360 | <u>19:10</u> | 2200 | <u>19:50</u> | 2040 | <u>20:30</u> | 1880 | <u>21:10</u> | 1720 | <u>21:50</u> | 1560 |
| 18:31 | 2356 | 19:11 | 2196 | 19:51 | 2036 | 20:31 | 1876 | 21:11 | 1716 | 21:51 | 1556 |
| 18:32 | 2352 | 19:12 | 2192 | 19:52 | 2032 | 20:32 | 1872 | 21:12 | 1712 | 21:52 | 1552 |
| 18:33 | 2348 | 19:13 | 2188 | 19:53 | 2028 | 20:33 | 1868 | 21:13 | 1708 | 21:53 | 1548 |
| 18:34 | 2344 | 19:14 | 2184 | 19:54 | 2024 | 20:34 | 1864 | 21:14 | 1704 | 21:54 | 1544 |



| | | | | | | | | | | | |
|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 18:35 | 2340 | 19:15 | 2180 | 19:55 | 2020 | 20:35 | 1860 | 21:15 | 1700 | 21:55 | 1540 |
| 18:36 | 2336 | 19:16 | 2176 | 19:56 | 2016 | 20:36 | 1856 | 21:16 | 1696 | 21:56 | 1536 |
| 18:37 | 2332 | 19:17 | 2172 | 19:57 | 2012 | 20:37 | 1852 | 21:17 | 1692 | 21:57 | 1532 |
| 18:38 | 2328 | 19:18 | 2168 | 19:58 | 2008 | 20:38 | 1848 | 21:18 | 1688 | 21:58 | 1528 |
| 18:39 | 2324 | 19:19 | 2164 | 19:59 | 2004 | 20:39 | 1844 | 21:19 | 1684 | 21:59 | 1524 |

**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B3
2/3**

Relay 3 athletes: Seniors, Juniors, Under 19 (YA), Under 17 (YB)

| min | pts | min | pts | min | pts | min | pts | min | pts | min | pts |
|--------------|------|--------------|------|--------------|------|--------------|------|--------------|-----|--------------|-----|
| <u>22:00</u> | 1520 | <u>22:40</u> | 1360 | <u>23:20</u> | 1200 | <u>24:00</u> | 1040 | <u>24:40</u> | 880 | <u>25:20</u> | 720 |
| 22:01 | 1516 | 22:41 | 1356 | 23:21 | 1196 | 24:01 | 1036 | 24:41 | 876 | 25:21 | 716 |
| 22:02 | 1512 | 22:42 | 1352 | 23:22 | 1192 | 24:02 | 1032 | 24:42 | 872 | 25:22 | 712 |
| 22:03 | 1508 | 22:43 | 1348 | 23:23 | 1188 | 24:03 | 1028 | 24:43 | 868 | 25:23 | 708 |
| 22:04 | 1504 | 22:44 | 1344 | 23:24 | 1184 | 24:04 | 1024 | 24:44 | 864 | 25:24 | 704 |
| 22:05 | 1500 | 22:45 | 1340 | 23:25 | 1180 | 24:05 | 1020 | 24:45 | 860 | 25:25 | 700 |
| 22:06 | 1496 | 22:46 | 1336 | 23:26 | 1176 | 24:06 | 1016 | 24:46 | 856 | 25:26 | 696 |
| 22:07 | 1492 | 22:47 | 1332 | 23:27 | 1172 | 24:07 | 1012 | 24:47 | 852 | 25:27 | 692 |
| 22:08 | 1488 | 22:48 | 1328 | 23:28 | 1168 | 24:08 | 1008 | 24:48 | 848 | 25:28 | 688 |
| 22:09 | 1484 | 22:49 | 1324 | 23:29 | 1164 | 24:09 | 1004 | 24:49 | 844 | 25:29 | 684 |
| <u>22:10</u> | 1480 | <u>22:50</u> | 1320 | <u>23:30</u> | 1160 | <u>24:10</u> | 1000 | <u>24:50</u> | 840 | <u>25:30</u> | 680 |
| 22:11 | 1476 | 22:51 | 1316 | 23:31 | 1156 | 24:11 | 996 | 24:51 | 836 | 25:31 | 676 |
| 22:12 | 1472 | 22:52 | 1312 | 23:32 | 1152 | 24:12 | 992 | 24:52 | 832 | 25:32 | 672 |
| 22:13 | 1468 | 22:53 | 1308 | 23:33 | 1148 | 24:13 | 988 | 24:53 | 828 | 25:33 | 668 |
| 22:14 | 1464 | 22:54 | 1304 | 23:34 | 1144 | 24:14 | 984 | 24:54 | 824 | 25:34 | 664 |
| 22:15 | 1460 | 22:55 | 1300 | 23:35 | 1140 | 24:15 | 980 | 24:55 | 820 | 25:35 | 660 |
| 22:16 | 1456 | 22:56 | 1296 | 23:36 | 1136 | 24:16 | 976 | 24:56 | 816 | 25:36 | 656 |
| 22:17 | 1452 | 22:57 | 1292 | 23:37 | 1132 | 24:17 | 972 | 24:57 | 812 | 25:37 | 652 |
| 22:18 | 1448 | 22:58 | 1288 | 23:38 | 1128 | 24:18 | 968 | 24:58 | 808 | 25:38 | 648 |
| 22:19 | 1444 | 22:59 | 1284 | 23:39 | 1124 | 24:19 | 964 | 24:59 | 804 | 25:39 | 644 |
| <u>22:20</u> | 1440 | <u>23:00</u> | 1280 | <u>23:40</u> | 1120 | <u>24:20</u> | 960 | <u>25:00</u> | 800 | <u>25:40</u> | 640 |
| 22:21 | 1436 | 23:01 | 1276 | 23:41 | 1116 | 24:21 | 956 | 25:01 | 796 | 25:41 | 636 |
| 22:22 | 1432 | 23:02 | 1272 | 23:42 | 1112 | 24:22 | 952 | 25:02 | 792 | 25:42 | 632 |
| 22:23 | 1428 | 23:03 | 1268 | 23:43 | 1108 | 24:23 | 948 | 25:03 | 788 | 25:43 | 628 |
| 22:24 | 1424 | 23:04 | 1264 | 23:44 | 1104 | 24:24 | 944 | 25:04 | 784 | 25:44 | 624 |
| 22:25 | 1420 | 23:05 | 1260 | 23:45 | 1100 | 24:25 | 940 | 25:05 | 780 | 25:45 | 620 |
| 22:26 | 1416 | 23:06 | 1256 | 23:46 | 1096 | 24:26 | 936 | 25:06 | 776 | 25:46 | 616 |
| 22:27 | 1412 | 23:07 | 1252 | 23:47 | 1092 | 24:27 | 932 | 25:07 | 772 | 25:47 | 612 |
| 22:28 | 1408 | 23:08 | 1248 | 23:48 | 1088 | 24:28 | 928 | 25:08 | 768 | 25:48 | 608 |
| 22:29 | 1404 | 23:09 | 1244 | 23:49 | 1084 | 24:29 | 924 | 25:09 | 764 | 25:49 | 604 |
| <u>22:30</u> | 1400 | <u>23:10</u> | 1240 | <u>23:50</u> | 1080 | <u>24:30</u> | 920 | <u>25:10</u> | 760 | <u>25:50</u> | 600 |



| | | | | | | | | | | | |
|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
| 22:31 | 1396 | 23:11 | 1236 | 23:51 | 1076 | 24:31 | 916 | 25:11 | 756 | 25:51 | 596 |
| 22:32 | 1392 | 23:12 | 1232 | 23:52 | 1072 | 24:32 | 912 | 25:12 | 752 | 25:52 | 592 |
| 22:33 | 1388 | 23:13 | 1228 | 23:53 | 1068 | 24:33 | 908 | 25:13 | 748 | 25:53 | 588 |
| 22:34 | 1384 | 23:14 | 1224 | 23:54 | 1064 | 24:34 | 904 | 25:14 | 744 | 25:54 | 584 |
| 22:35 | 1380 | 23:15 | 1220 | 23:55 | 1060 | 24:35 | 900 | 25:15 | 740 | 25:55 | 580 |
| 22:36 | 1376 | 23:16 | 1216 | 23:56 | 1056 | 24:36 | 896 | 25:16 | 736 | 25:56 | 576 |
| 22:37 | 1372 | 23:17 | 1212 | 23:57 | 1052 | 24:37 | 892 | 25:17 | 732 | 25:57 | 572 |
| 22:38 | 1368 | 23:18 | 1208 | 23:58 | 1048 | 24:38 | 888 | 25:18 | 728 | 25:58 | 568 |
| 22:39 | 1364 | 23:19 | 1204 | 23:59 | 1044 | 24:39 | 884 | 25:19 | 724 | 25:59 | 564 |

**POINTS
TABLE**

COMBINED EVENT

**Appendix
5B3
3/3**

Relay 3 athletes: Seniors, Juniors, Under 19 (YA), Under 17 (YB)

| min | pts | min | pts | min | pts | min | pts |
|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| <u>26:00</u> | 560 | <u>26:40</u> | 400 | <u>27:20</u> | 240 | <u>28:00</u> | 80 |
| 26:01 | 556 | 26:41 | 396 | 27:21 | 236 | 28:01 | 76 |
| 26:02 | 552 | 26:42 | 392 | 27:22 | 232 | 28:02 | 72 |
| 26:03 | 548 | 26:43 | 388 | 27:23 | 228 | 28:03 | 68 |
| 26:04 | 544 | 26:44 | 384 | 27:24 | 224 | 28:04 | 64 |
| 26:05 | 540 | 26:45 | 380 | 27:25 | 220 | 28:05 | 60 |
| 26:06 | 536 | 26:46 | 376 | 27:26 | 216 | 28:06 | 56 |
| 26:07 | 532 | 26:47 | 372 | 27:27 | 212 | 28:07 | 52 |
| 26:08 | 528 | 26:48 | 368 | 27:28 | 208 | 28:08 | 48 |
| 26:09 | 524 | 26:49 | 364 | 27:29 | 204 | 28:09 | 44 |
| <u>26:10</u> | 520 | <u>26:50</u> | 360 | <u>27:30</u> | 200 | <u>28:10</u> | 40 |
| 26:11 | 516 | 26:51 | 356 | 27:31 | 196 | 28:11 | 36 |
| 26:12 | 512 | 26:52 | 352 | 27:32 | 192 | 28:12 | 32 |
| 26:13 | 508 | 26:53 | 348 | 27:33 | 188 | 28:13 | 28 |
| 26:14 | 504 | 26:54 | 344 | 27:34 | 184 | 28:14 | 24 |
| 26:15 | 500 | 26:55 | 340 | 27:35 | 180 | 28:15 | 20 |
| 26:16 | 496 | 26:56 | 336 | 27:36 | 176 | 28:16 | 16 |
| 26:17 | 492 | 26:57 | 332 | 27:37 | 172 | 28:17 | 12 |
| 26:18 | 488 | 26:58 | 328 | 27:38 | 168 | 28:18 | 8 |
| 26:19 | 484 | 26:59 | 324 | 27:39 | 164 | 28:19 | 4 |
| <u>26:20</u> | 480 | <u>27:00</u> | 320 | <u>27:40</u> | 160 | <u>28:20</u> | 0 |
| 26:21 | 476 | 27:01 | 316 | 27:41 | 156 | | |
| 26:22 | 472 | 27:02 | 312 | 27:42 | 152 | | |
| 26:23 | 468 | 27:03 | 308 | 27:43 | 148 | | |
| 26:24 | 464 | 27:04 | 304 | 27:44 | 144 | | |
| 26:25 | 460 | 27:05 | 300 | 27:45 | 140 | | |
| 26:26 | 456 | 27:06 | 296 | 27:46 | 136 | | |



| | | | | | |
|-------|-----|-------|-----|-------|-----|
| 26:27 | 452 | 27:07 | 292 | 27:47 | 132 |
| 26:28 | 448 | 27:08 | 288 | 27:48 | 128 |
| 26:29 | 444 | 27:09 | 284 | 27:49 | 124 |
| 26:30 | 440 | 27:10 | 280 | 27:50 | 120 |
| 26:31 | 436 | 27:11 | 276 | 27:51 | 116 |
| 26:32 | 432 | 27:12 | 272 | 27:52 | 112 |
| 26:33 | 428 | 27:13 | 268 | 27:53 | 108 |
| 26:34 | 424 | 27:14 | 264 | 27:54 | 104 |
| 26:35 | 420 | 27:15 | 260 | 27:55 | 100 |
| 26:36 | 416 | 27:16 | 256 | 27:56 | 96 |
| 26:37 | 412 | 27:17 | 252 | 27:57 | 92 |
| 26:38 | 408 | 27:18 | 248 | 27:58 | 88 |
| 26:39 | 404 | 27:19 | 244 | 27:59 | 84 |

Figure 1 - Indoor or Night Range Light Requirements (in Lux)

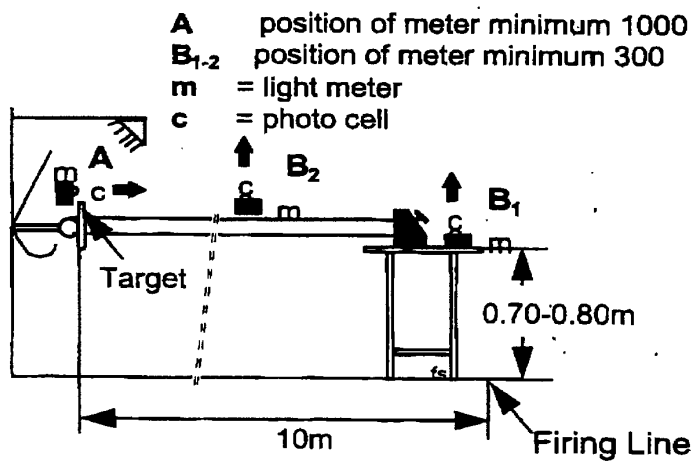


Figure 2 – The Grip of the Pistol

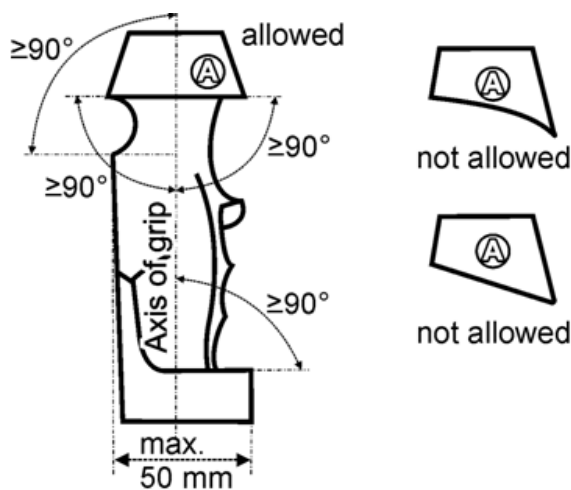


Figure 3 – The bends of the grip



Up- and downward
bend allowed in the
longitudinal direction



Up- and downward
bend allowed in the
longitudinal direction





Figure 4 – The Thumb in the Grip

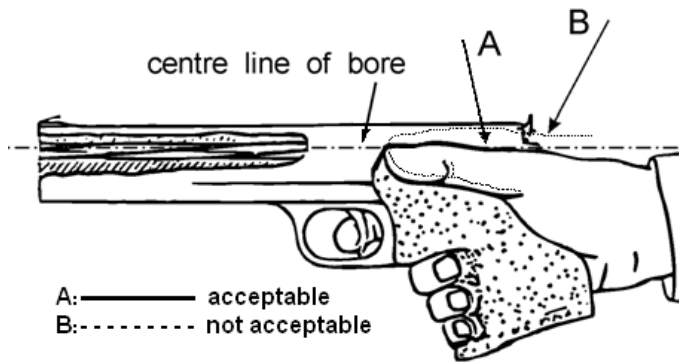
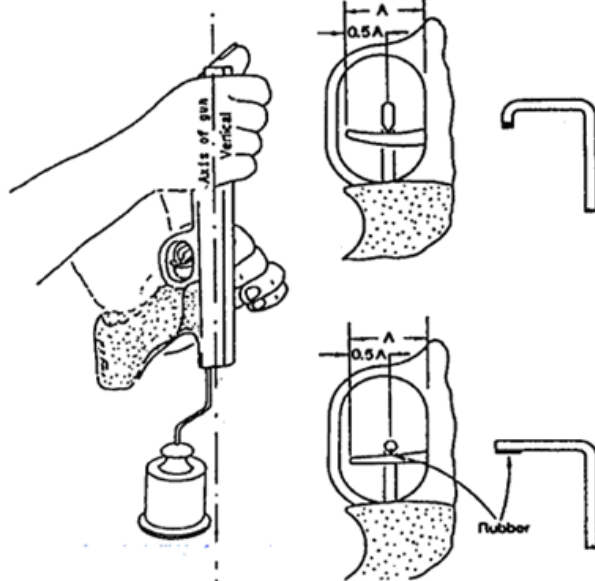


Figure 5 – Measuring the Trigger Weight



Measuring the Weight of the Trigger Pull



Figure 6 – Mechanical Targets



Figure 7 – Electronic Pellet Target

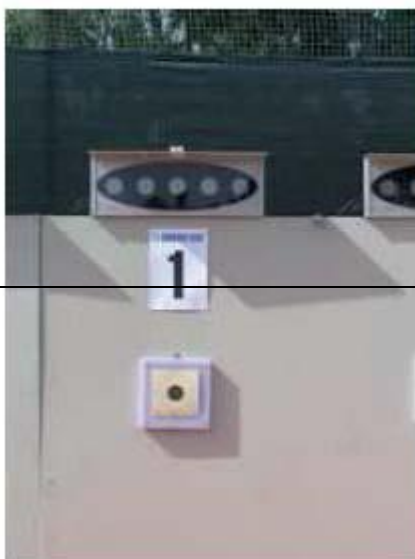




Figure 8 – Hit Laser Target

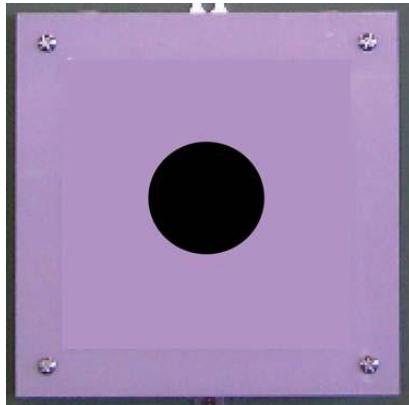
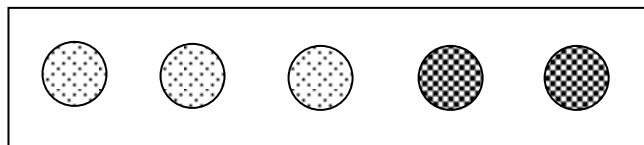


Figure 9 – Laser Precision Target



Figure 10 – Indicators (Results Display Lights)



(Black & white draw for impression B&W)

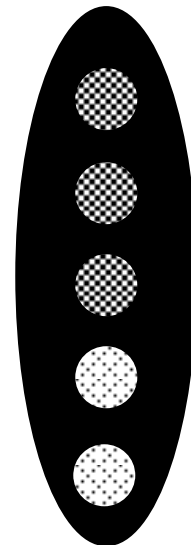
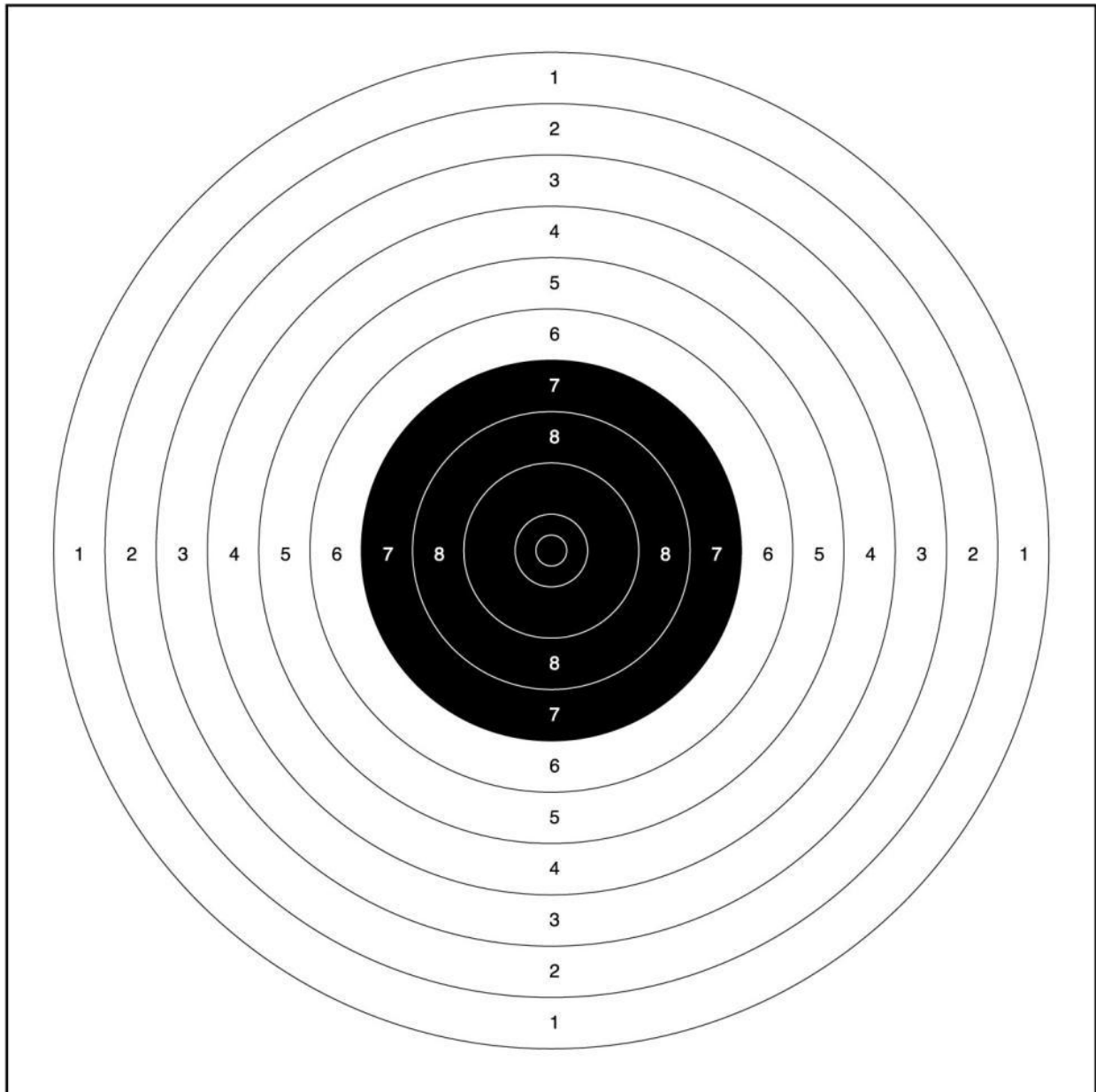




Figure 11 – The Precision Target

| | | | |
|----------------|-------------------------|---------------|--------------------------|
| 10 ring | 11.5 mm (± 0.1 mm) | 5 ring | 91.5 mm (± 0.5 mm) |
| 9 ring | 27.5 mm (± 0.1 mm) | 4 ring | 107.5 mm (± 0.5 mm) |
| 8 ring | 43.5 mm (± 0.2 mm) | 3 ring | 123.5 mm (± 0.5 mm) |
| 7 ring | 59.5 mm (± 0.5 mm) | 2 ring | 139.5 mm (± 0.5 mm) |
| 6 ring | 75.5 mm (± 0.5 mm) | 1 ring | 155.5 mm (± 0.5 mm) |



Central ten: 5.0 mm (+/- 0.1mm)
Black from 7 to 10 rings = 59.5 mm
Ring thickness: 0.1 mm to 0.2 mm
Minimum visible size of target card 170 mm x 170 mm