



World Crossbow Shooting Association Inc.
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Competition and Shooting Rules for World Championship. Regional Championship. Registered Star competition.

Indoor Target.

Book 6 of 11.

for

Target, Standard, Freestyle, and Medieval Crossbow

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BOOK 6. INDOOR TARGET

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41 INDOOR TARGET

Indoor Target Shooting will be conducted inside any suitably sized building (fixed or temporary) such as an indoor basketball court, warehouse, or marquee. Indoor Target events are protected from changing weather conditions. If a suitable indoor venue is not available, then the event may be conducted outdoors. It must be pointed out that this is not a preferred option as it puts the shooter at a disadvantage compared to an indoor shooter.

41.1 SAFETY AND LIGHTING

- 41.1.1 Safety precautions behind the targets and on the sides of the shooting range require special attention (e.g., doors, windows).
- 41.1.2 The source of light whether natural or artificial and its effect on the target faces and the competitors on the shooting line is important. It should be equal and adequate for all competitors.

41.2 RANGE LAYOUT

- 41.2.1 The venue and location of the targets will provide substantially equal conditions for all competitors. All competitors will be accommodated on the same range.
- 41.2.2 Shooting distances will be measured from a point vertically beneath the centre of target face to the shooting line along the floor. Tolerances on distances will be ± 10 cm.
- 41.2.3 A shooting line will be marked on the floor parallel to the target line.
- 41.2.4 A Waiting line will be indicated at a distance of at least three (3) metres behind the shooting line if possible.
- 41.2.5 The shooting direction will be at right angles to the shooting line.
- 41.2.6 Lanes may be marked on the floor to accommodate two (2) to four (4) competitors.
- 41.2.7 Points on the shooting line directly opposite the centre of each target face will be marked, allowing a minimum of one (1) metre per competitor.
- 41.2.8 Traffic lights (and timers if available) are to be placed on both sides of the range and, if necessary, in a clear lane in the centre of the target butts so that both right- and left-handed competitors will be able to see them.

41.3 VENUE EQUIPMENT

- 41.3.1 Targets (buttresses)

The buttress will be large enough to accommodate the target face(s) with a minimum of one (1) cm extra all-round the outside the outermost scoring zone(s), this will ensure that any bolt hitting the butt and just missing the outermost edge of the scoring zone remains in the butt. The butt is to be made from suitable material such that bolts will not ordinarily rebound from, pass through, or be damaged by it.
- 41.3.2 The target butt will be supported and secured on a suitable framework so that its centre is $130 \text{ cm} \pm 5 \text{ cm}$ above the floor level. The Butts and the framework will be secured to the floor and/or wall in such a manner as to prevent them from sliding along the floor, falling over, or collapsing. Where possible care must be taken when a target face is placed on the butt, that bolts which may pass through the butt are not damaged by the support. (*refer Appendix 8, Target Butt*).
- 41.3.3 The target butts will be set up at any angle between vertical and about ten (10) degrees back from the vertical. All targets will appear uniform.
- 41.3.4 Target butt will be numbered. The numbers will be a minimum of 20cm tall on a background large enough to accommodate them with a border and will be black figures on a yellow background, alternating with yellow figures on a black background (e.g., No. 1 black on yellow, No. 2 yellow on black, etc.). Target numbers will be affixed above or below the centre of each target face. (*refer BOOK 11 - Appendix 8, Target Butt*).
- 41.3.5 Flags or some other suitable device, will be provided at the targets and on the shooting line with which competitors and/or scorers can signal for a judge. These flags will preferably be red in colour.

41.4 TARGET FACES

There will be three types of WCSA or World Archery approved circular target faces namely 40 cm single 10 ring multi colour, 40cm vertical 3 spot 5 ring multi colour and 40cm triangle 3 spot 5 ring multi colour. Competitors may shoot at triple vertical or triangle 3 spot 5 ring face for indoor rounds in which case one bolt will be shot into each face (**Mandatory for World Championships**). Medieval may shoot on a 40cm single 10 ring face in which case all 3 bolts will be shot into the face. Bolts lodged in the target outside the printed scoring zones will not score.

- 41.4.1 a) The 40cm single 10 ring multi coloured face will be divided into five equal concentric coloured rings arranged from the centre outwards as follows: gold (yellow), red, light blue, black and white. Each ring will in turn be divided by a thin line into two zones of equal width, thus making ten scoring zones.
- 41.4.2 b) The 40cm 3 spot 5 ring vertical or triangle multi coloured face will be divided into 5 equal concentric rings arranged from the centre outwards as follows: gold (yellow), red and light blue. The gold and red rings will in turn be divided into two zones of equal width thus making five scoring zones.

TARGET FACE POSITION

- 41.4.3 The 40cm single spot 10 ring multi colour face may be positioned on the butt as follows:
- One target face positioned centre of the butt. Centre of the spot to be 130cm +/- 5cm above the floor.
 - Two target faces positioned side by side horizontally on the butt. Centre of spots to be 130cm +/-5cm above the floor.
 - Four target faces arranged in a square on the butt. The higher faces, centre of the spots to be 165cm +/- 5cm above the floor and the lower faces, centre of the spots to be 100cm +/- 5cm above the floor.
- 41.4.4 The 40cm 3 spot 5 ring multi colour vertical face may be positioned on the butt as follows:
- a) One, two, three or four vertical faces positioned on the butt. The middle spot on all faces to be 130cm +/- 5cm above the floor.
- 41.4.5 The 40cm 3 spot 5 ring multi colour triangle face may be positioned on the butt as follows:
- a) One or two triangle faces positioned on the butt. Centres of the lower two spots to be 130cm +/- 5cm above the floor.
- b) Four triangle faces arranged in a square on the butt. The higher faces, centres of the lower two spots to be 165cm +/- 5cm above the floor. The lower faces, centres of the lower two spots to be 100cm +/- 5cm above the floor.
- 41.4.6 Such dividing lines, and any dividing lines which may be used between colours, will be made entirely within the higher scoring zone in each case.
- 41.4.7 Any line marking the outermost edge of the scoring zones will be made entirely within the scoring zone.
- 41.4.8 The width of the thin dividing lines as well as the outermost line will not exceed two (2) mm.
- 41.4.9 The centre of the target face is termed the 'pinhole' and will be indicated by a small "+" (cross) the lines of which will not exceed one (1) mm in width and four (4) mm in length.
- 41.4.10 Where Multicoloured partial target faces are used. These shall be arranged in vertical order providing that they are the same for all competitors using them.
- 41.4.11 Competitors will be provided with their own individual target face. Where more than one (1) face is used on a target butt, each face will be affixed with the target number to indicate the assigned target face to the competitors. The numbers will be fixed just above the face and be clearly visible from the shooting line.
- 41.4.12 The target face will be affixed to the target butt in such a manner that the face cannot move or contract when hit by a bolt.
- 41.4.13 Target faces may be made of paper, cloth, or any other suitable material. All faces will be uniform and of the same material.

Tolerances of measurement

Zone	Diameter in cm 40cm single Face	Tolerance +/- in mm
Outer 10	4	1
9	8	1
8	12	1
7	16	3
6	20	3
5	24	3
4	28	3
3	32	3
2	36	3
1	40	3

Scoring values and Specifications for multi coloured Faces

Scoring Values	Colours	Pantone Scale
10	Yellow	107U
9	Yellow	107U
8	Red	032U
7	Red	032U
6	Light Blue	306U
5	Light Blue	306U
4	Black	Process Black
3	Black	Process Black
2	White	
1	White	

Refer to Appendix 11 Target Face.

41.5 TIME CONTROL EQUIPMENT

Refer BOOK 4 - Clause 39.4

41.6 MISCELLANEOUS EQUIPMENT

Refer BOOK 4 - Clause 39.5

41.7 SHOOTING CONTROL AND SAFETY

Refer BOOK 4 - Clause 39.6

41.8 ORDER OF SHOOTING AND TIMING CONTROL

Refer BOOK 4 - Clause 39.7

41.9 SHOOTING

Refer BOOK 4 - Clause 39.8

41.10 SHOOTING STANCE AND POSITION

Refer BOOK 4 - Clause 39.9.

41.11 SCORING

Refer BOOK 4 - Clause 39.10.

SCHEDULE 2 - INDOOR ROUNDS

Indoor Target Rounds - Current Number of Bolts at Each Distance

Total	Distance (m)	Possible			Max. Score
		Bolts	25m	18m	
TC 600/18/40 Indoor (18m)		60		60+	600
TC 600/18/40 Double Indoor (18m)		120		120+	1200
WCSA TC 600/25/40 Indoor (25m)		60	60+		600
WCSA TC 600/25/18/40 Double Indoor		120	60+	60+	1200

Legend: + = 40cm single spot Multi coloured face or 3 spot vertical face
 or 3 spot triangle face.

The World Indoor Target Championships comprises a Double Indoor TC 600/18/40 Target Rounds (refer BOOK 2 - clause 2.3).