

CoF Designer Responsibilities: The courses of fire (CoF) Designer shall:

- Preferably be an IDPA SO
- Design safe and IDPA legal CoF using this guidance and the IDPA rulebook.
- Arrive at least 2-hours before their match and help set up their CoF.

CoF Design and Review Process: The courses of fire (CoF) for each match will be designed according to the guidance in this document. Once designed, the CoF for the match will go through the following:

- 8 weeks before match: Design CoF.
- 6 weeks before match: Review with SOs and MD for the match. Update.
- 4 weeks before match: Review with Metacon Safety and Education (S&E). Update
- 2 weeks before the match: Post to the Metacon NECPL website

Safety First: Design with maximum safety in mind and take into consideration:

- Inexperienced shooters – designs must be safely executed by a new shooter.
- SO constraints – designs must allow the SO to maintain visual control over the shooter gun and hand while maintaining a safe position relative to the shooters required actions.

Overall Match Requirement: The general match design requirements are:

- one scenario course with movement (CoF 1);
- a course that is a minor alteration to CoF 1 (CoF 3);
- A semi-standards course that is easy to duplicate but only one string of fire (CoF 2).
- Another standards course that is a modification to CoF 2 (CoF 4)

The goal is to get as close to 18 shots per CoF for a total of 54 for the match. If we split the match into two groups (e.g. 9:00 am and 11:00 am) then we must do two changes so it is important for time that CoF 1 to 3 and CoF 2 to 4 are quick to change.

Major Constraints:

- **Indoor:** Anticipate that roughly 11 targets with appropriate number of no-shoots will fit across the range in a reasonable way in two CoF. All shooting must occur up range of the fault line, which is at 10 yards from the backstop.
- **Outdoor:** Because we set the targets closer to the covered firing line than the backstop, it severely limits the available angle to shoot from any point. (e.g, from the covered firing line, you have about 30 degrees between the barber pole. 30 yard from the berm, you have about 150 degrees between the barber poles)

Murphy's Law: We hope people won't do stupid stuff but given the opportunity, someone will because of the multi-tasking nature of our sport and the timer's "brain disengagement" buzzer. It is the designer's job to try to eliminate as many of the opportunities to do foolish things explicitly in their course design.

Helpful Hints:

- CoF are designed to meet the requirements in the IDPA Rulebook. Knowledge of the IDPA rules and Appendix Five: Course Design Rationale is a must.
- If cover is available, it must be used – design appropriately.
- CoF should be revolver neutral – reloads and target order should not penalize revolver shooters by design. (*This rule will be eliminated in the new rulebook*)
- By rule everything is shot in tactical priority unless tactical sequence is specified
- No more than 1- no shoot for every 3-shoot targets
- Use no shoots at the end of the CoF to protect walls (e.g. leftmost target for CoF on left side of range) or shoot throughs to other CoF (e.g. leftmost target for CoF on right side of range)
- It is critically important that the shooter not "muzzle" themselves, other competitors or the staff. To eliminate this possibility
 - We do not draw while seated (including in the truck) so start with gun on table, on seat, etc.
 - We do not draw while kneeling so kneeling CoF should say, "Draw then kneel"
 - We generally do not turn and draw.
- If we use the truck and the shooters exit the truck, the gun should be shot dry (e.g. loaded to 6 rounds and 6 rounds required from the truck). Reloading and additional shooting may only occur when the shooter exits the cab and both feet are on the ground.
- To minimize shoot throughs and shots missing the backstop/berm control movement by
 - creating firing points (e.g. from behind cover, through a window, or seated);
 - moving forward or backward in a defined hallway against one to two targets will allow for movement but also minimize the angle at which bullets will be shot;
 - Specifying that all shots must be shot from a position before movement can happen.
- Design out shooter errors/safety issues:
 - If you have a retreat stage to cover, set it up so that the shooter turns to the short side of the range to move to cover (if a shooter turns left, set stage up on left). If for some reason they turn up range, there will be less people to be muzzled.

- When moving along cover, set it up so it slants downrange, which will minimize the opportunity for shooters to break the 180.
- If a pick-up gun is used, ensure that all rounds in the gun must be fired before transitioning to the competitor's pistol.

Design Template Requirements and Example:

- Each CoF on the Metacon IDPA shall include:

- A diagram including:
 - Side of Range indication
 - Fault Line
 - All targets
 - Shooting Positions
 - Cover and props
 - Distances
- Scenario
- A course description
- Safety Reminders for the SO
- Set Up hints for the SO
- In the footer
 - Concealment or not
 - Total Round count
 - Vickers or Limited Vickers

