



MASTER MARKSMANSHIP TRAINING COURSE



Shooter / Target Analysis

- As a coach it is important that you be able to observe and diagnose shooter errors.
- Shooting should be learned in a safe and relaxed environment, nobody learns a fine motor skill by being screamed at
- Diagnosing shooter errors will require a dialog between shooter and coach. The only person that can see through the shooters sights during their shot is the shooter. You must ask the shooter what they saw while firing.
- A technique that can be helpful is to use a smart phone and take video of a shooter's firing error, this will allow the shooter the opportunity to see themselves make the error instead of just being told they are wrong.



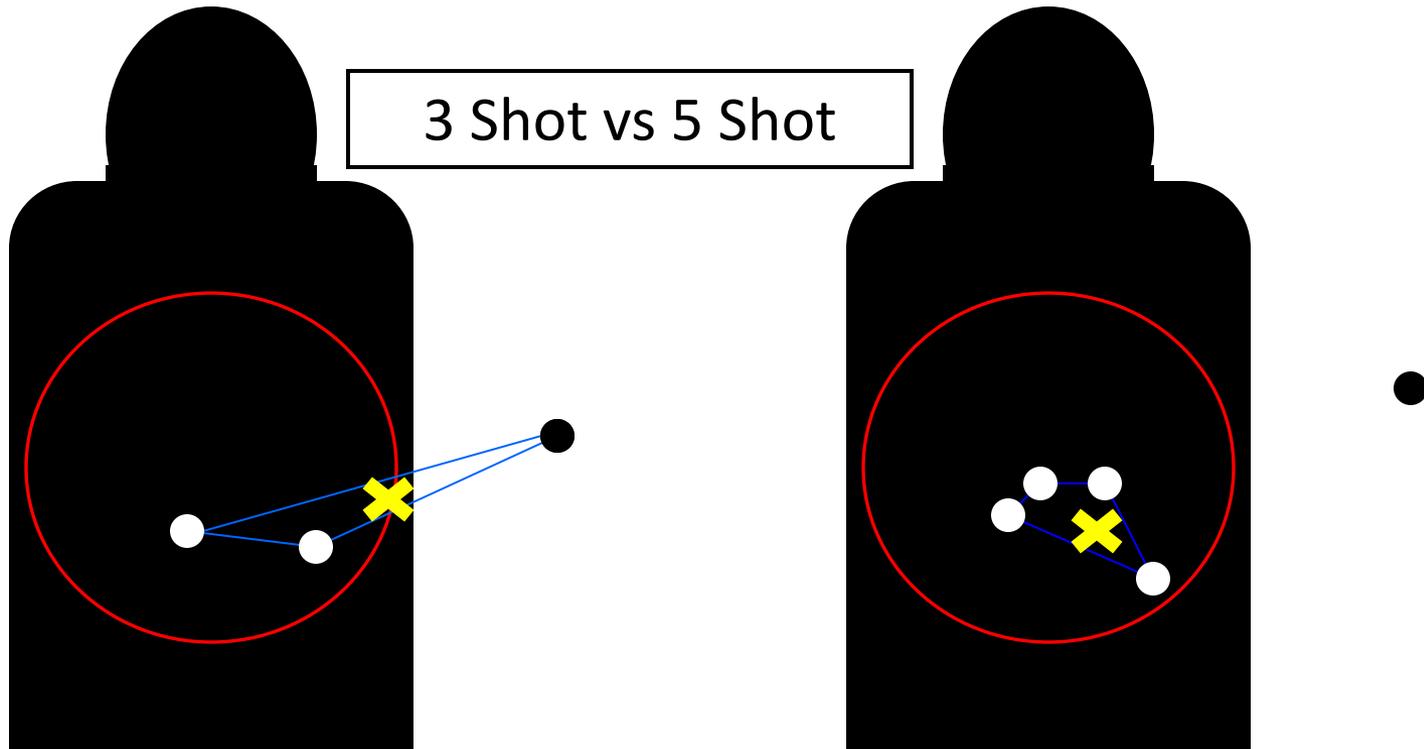
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Shot Group Triangulation

If possible, 5 shot groups are recommended

- Makes triangulation more accurate
- Allows for more appropriate sight adjustments
- Allows shooter to make a minor error on one shot without ruining his group.





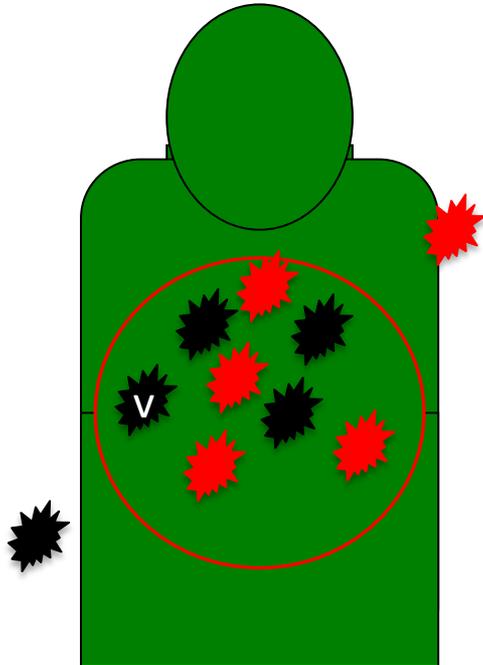
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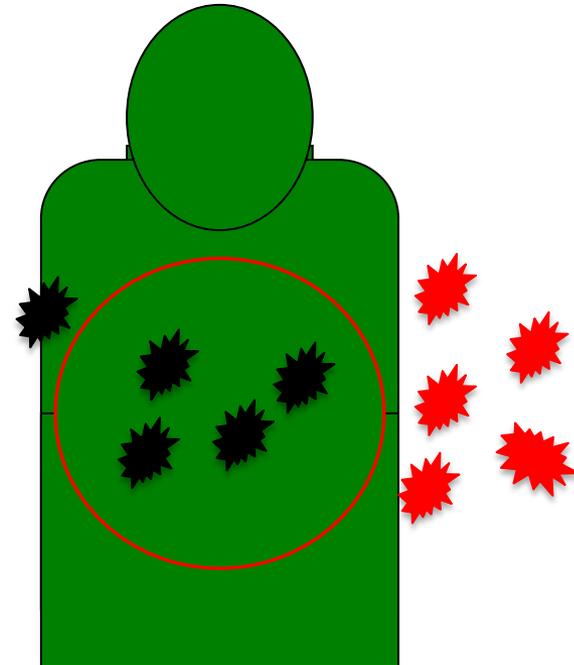
Grouping

- An acceptable group size is 4/5 rounds inside a 2.5cm (1 in) area
- Grouping must show consistency (multiple shot groups in the same 2.5 – 4 cm area before adjustments are made. Not placing group on top of group shows inconsistency in fundamentals

Acceptable grouping



Unacceptable grouping





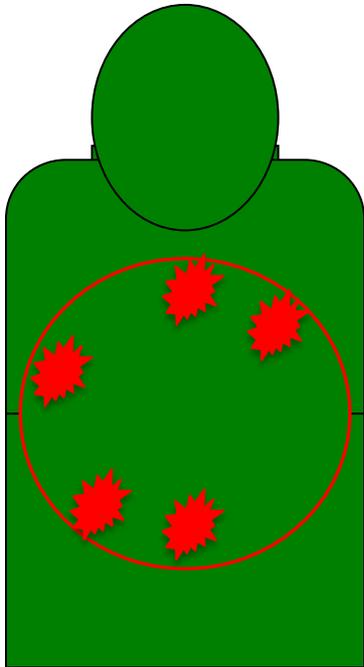
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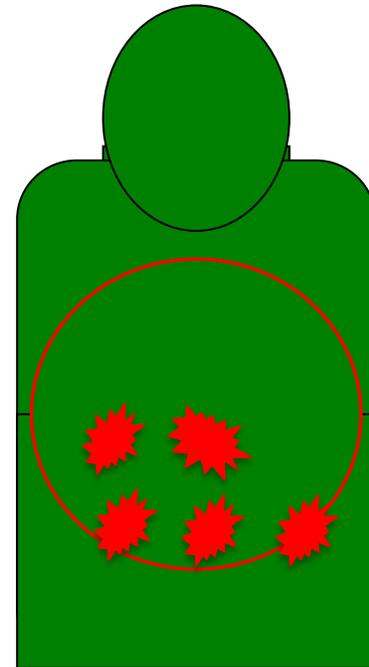
Shooter improvement

- Failure to shoot a group within the weapon system's capabilities will cause a failure to zero
- As our shooting skills improve and our groups shrink, it is not uncommon for zeros to shift

Poor Shot grouping



Shot grouping improvement





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Target Analysis

- Remember- all firing takes place **at the weapon**
- The only thing you can tell for sure is that the **rifle was pointed and fired in those spots**



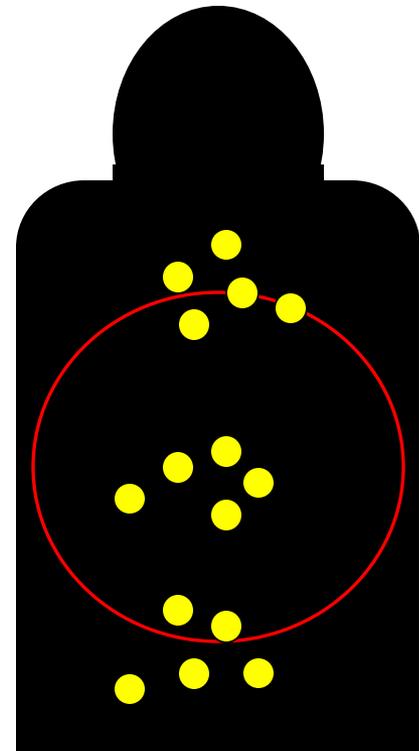


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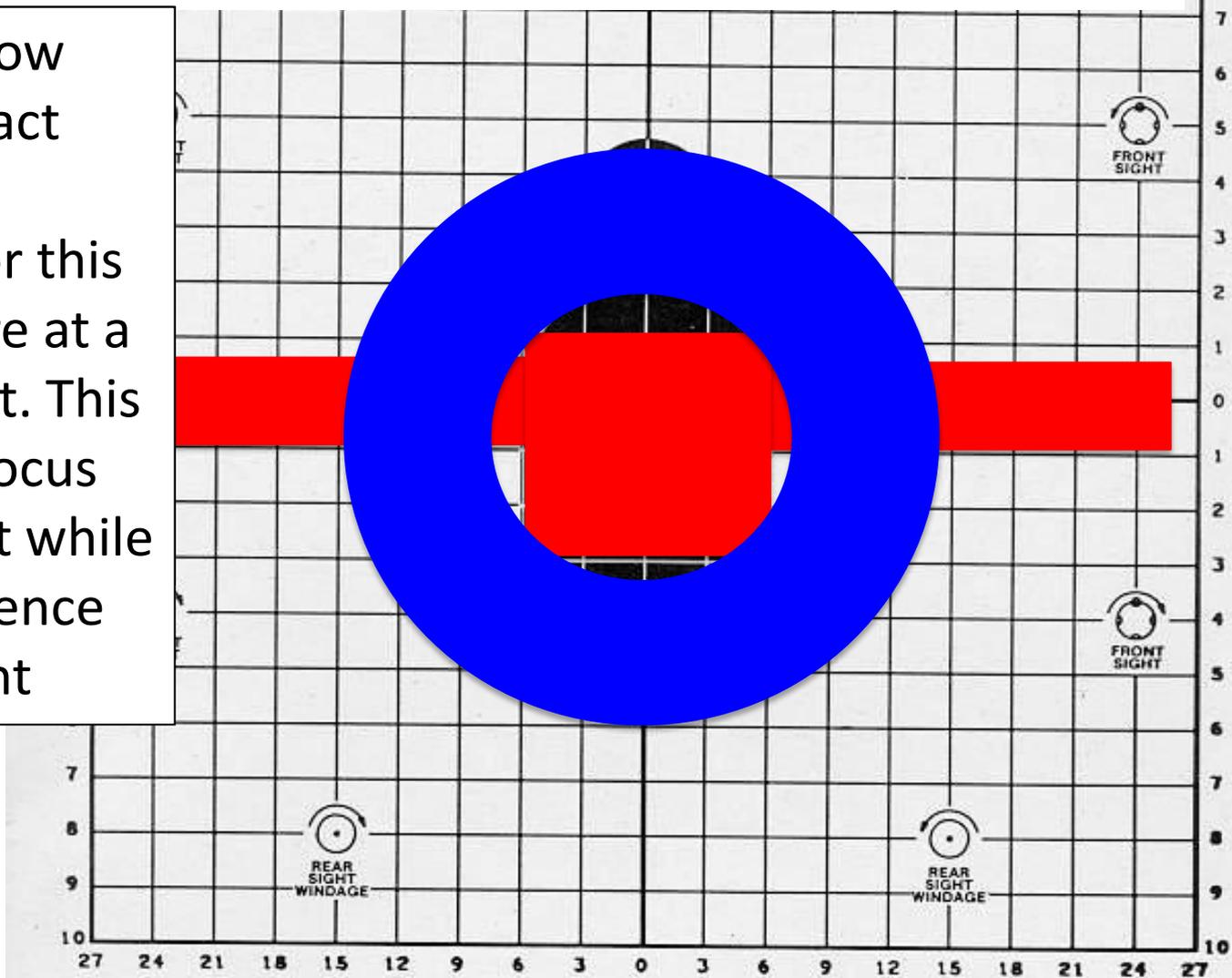
Shots grouped, inconsistent placement for elevation

- Perception of center mass hold not consistent
- Concentrate on maintaining consistent stock weld
- Having shooter aim at a smaller area of the target can help them focus and gain more consistency



Shots grouped, inconsistent placement for elevation

Some shooters allow the target to distract them from sight alignment. A fix for this is to have them fire at a 2 in "donut" target. This enables them to focus on sight alignment while still having a reference for sight placement

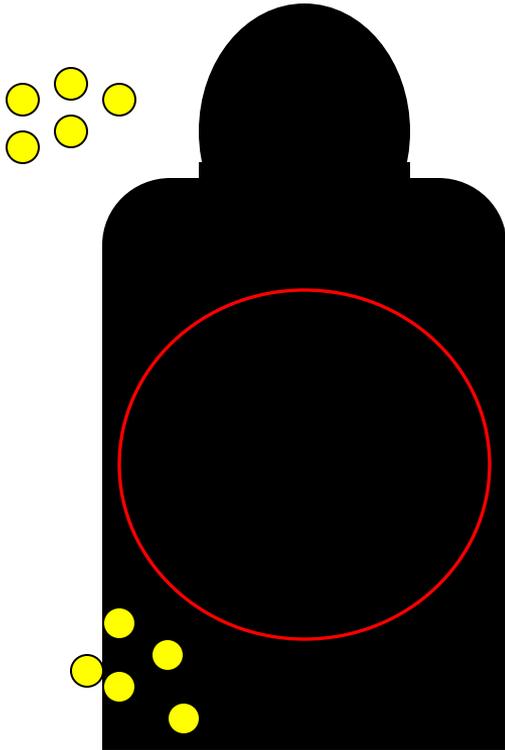




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Shots grouped, inconsistent placement.



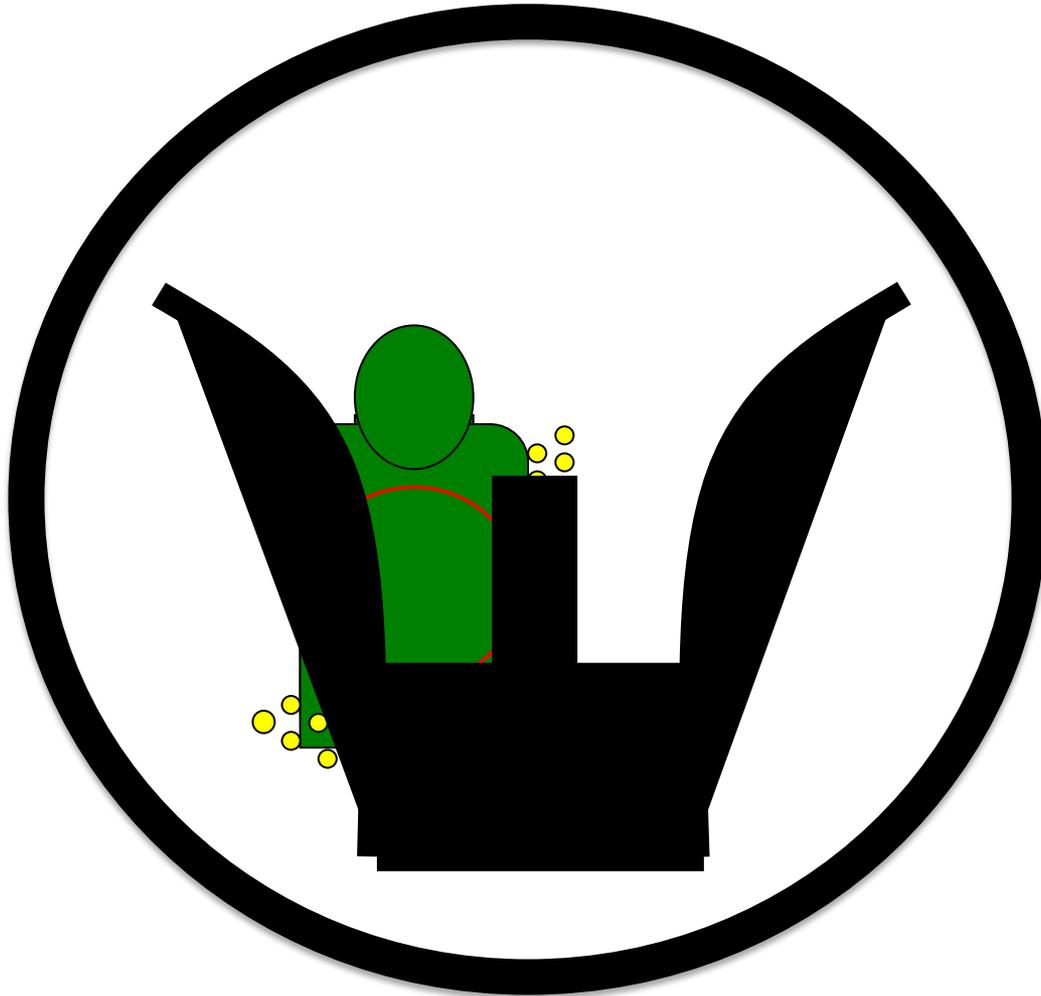
- Point of aim is most likely **not** the problem.
- Proper application of principles within each shot group.
- Indication of a gross change in sight alignment **between** shot groups.
- Indication of poor Natural Point of Aim



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Shots grouped, inconsistent placement.

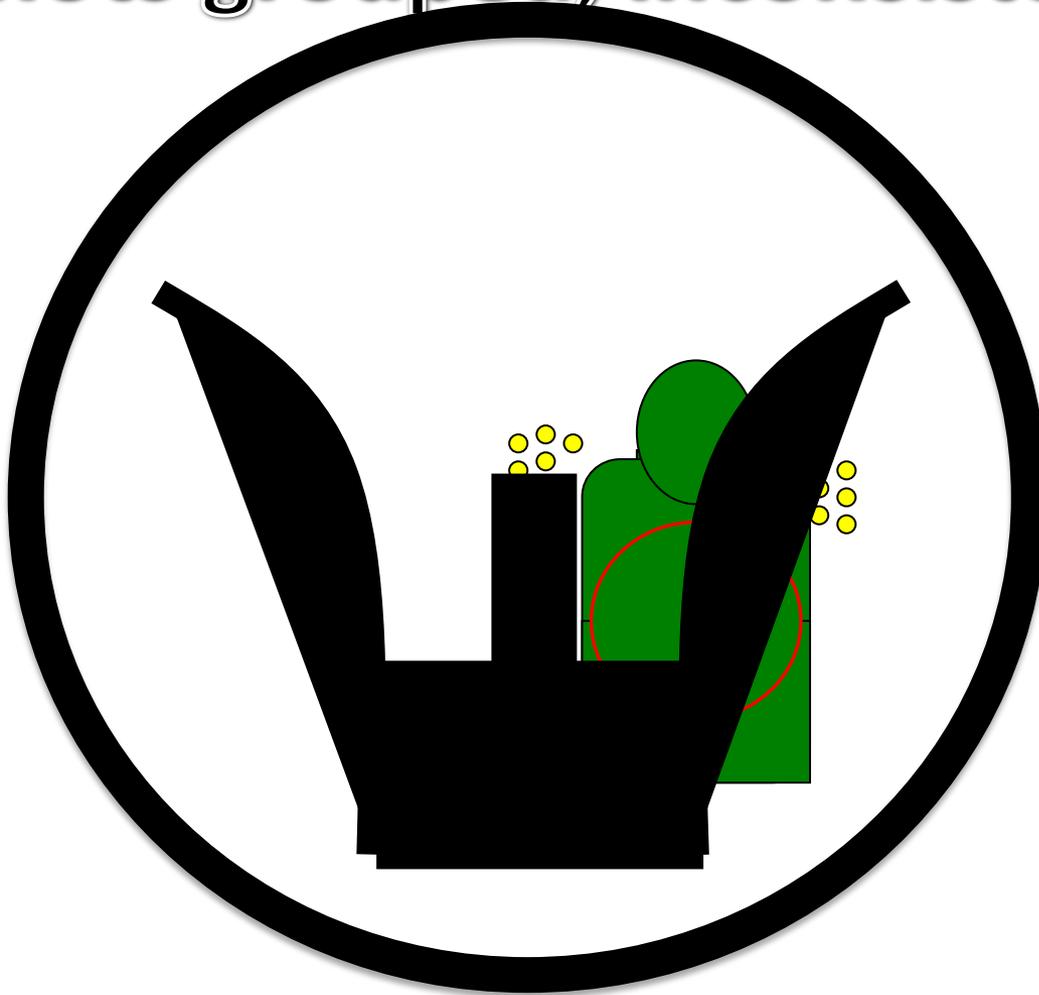




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Shots grouped, inconsistent placement.

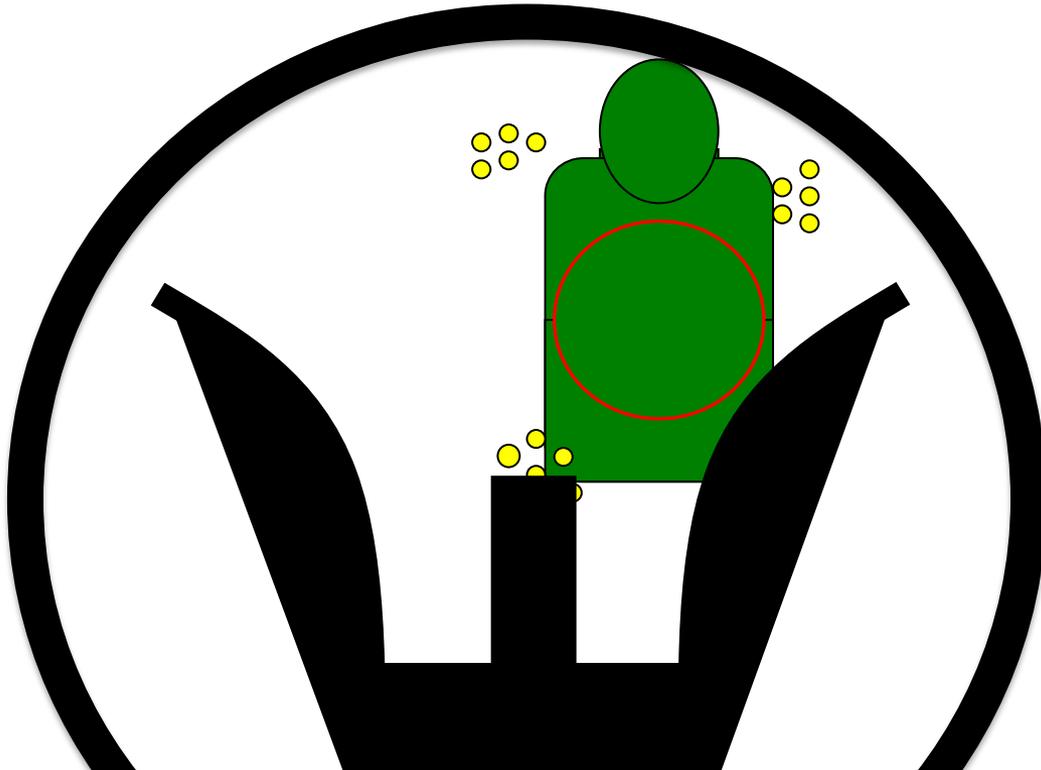




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Shots grouped, inconsistent placement.

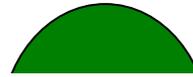




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Shots grouped, inconsistent placement.



Probably not. Here's what probably happened.

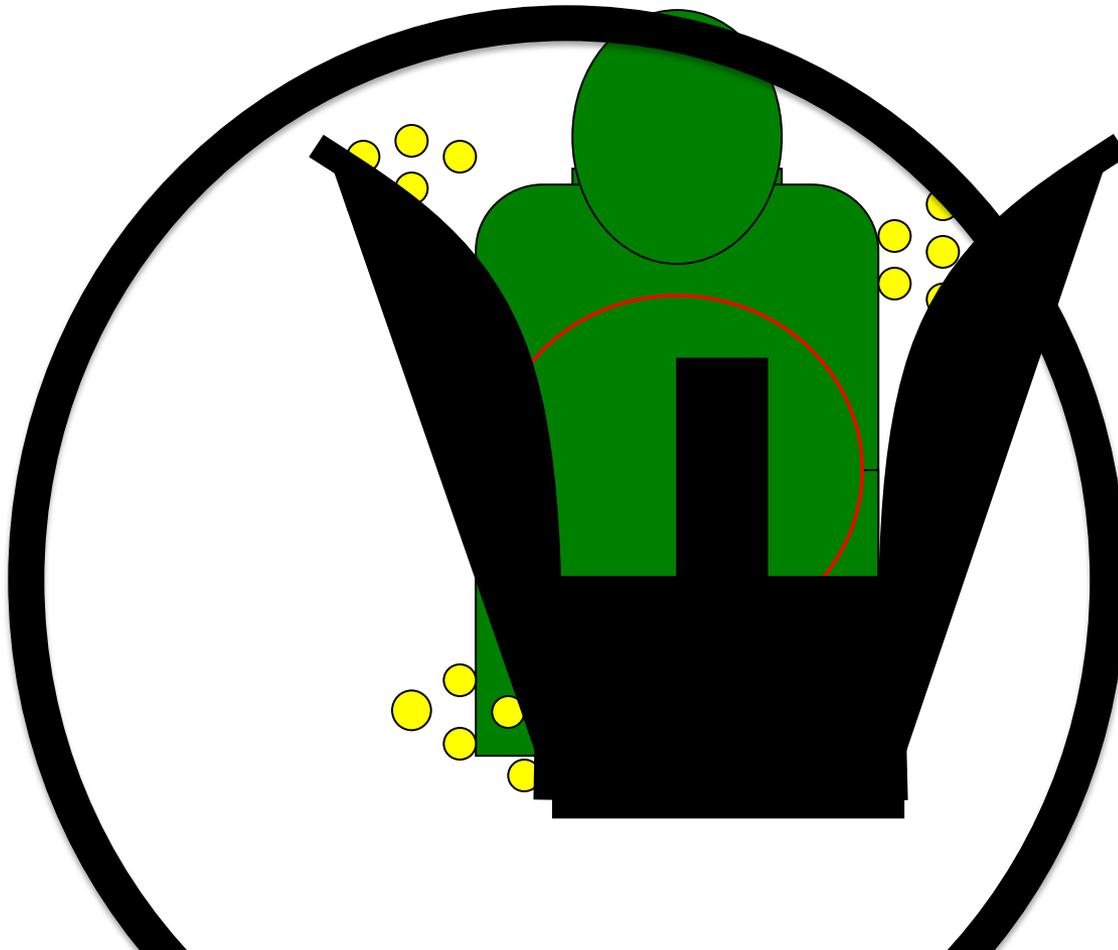
Shooter misaligned the sights consistently while placing the front sight at center mass.



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Shots grouped, inconsistent placement.

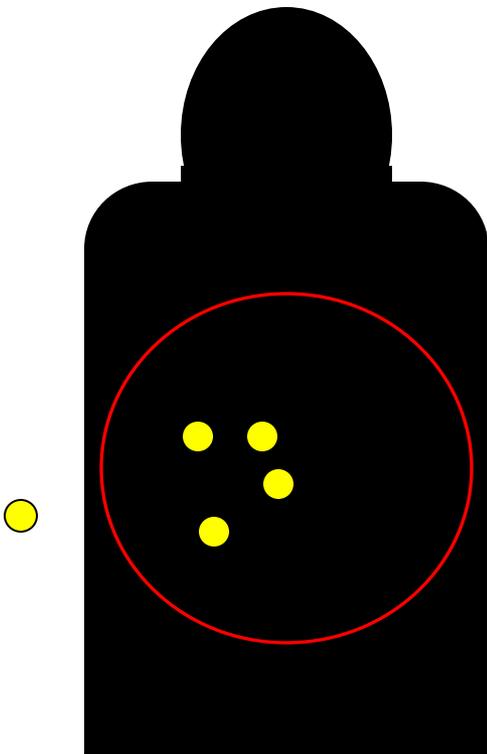




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Target Analysis



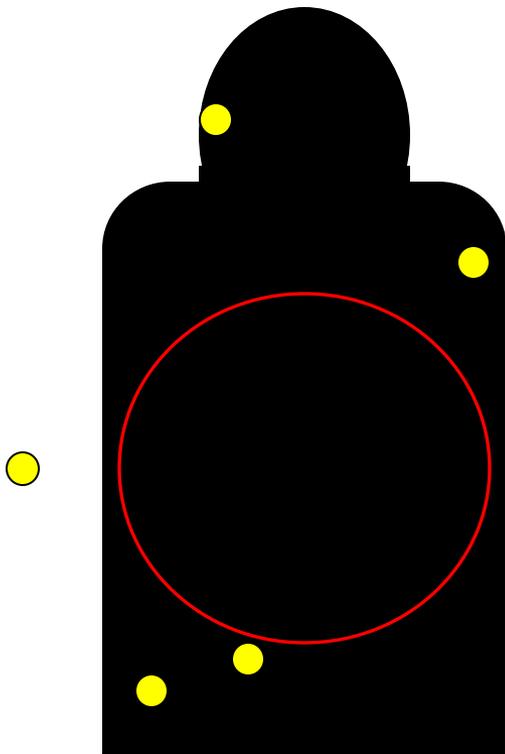
- Shooter could have shot a bad shot
- Possibly poor trigger control



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Target Analysis



- Shooter could be making one, or multiple, fundamental errors
- Watch the shooter shoot
- Systematically work through each fundamental task and scrutinize each shot group
- Having shooters aim at a smaller area of the target can help them focus and gain more consistency