Coaching the Grouping Practice

Preliminaries • Check the firer's clothing and equipment for a comfortable fit

· Check sights for rough zero

· Check that all screws are tight and wpn is in good condition

Ensure pre-fire cleaning was completed and check firer's ammo and magazines.

Before Firing · Determine firer's grouping capacity

from record book. · Confirm firer understands practice

- Confirm Point of Aim · Check sight setting when range ordered
- As firer adjusts position, check:
- · Alignment on correct target
- · Any faults in position and support

During Firing • Lie on firer's "open side"

- · Watch firer throughout, anticipate and look for:
 - Changes of Position
 - · Changes in Support
 - Dwelling on AimTrigger Operation
 - Follow Through
- · Record firer's declaration and coach's observations · Rest firer during discussions

After Firing • Discuss the group with firer by

- · Compare declarations with shots
- Plot shots in book and determine MPI
- Measure size of group ignore wide shots
- Examine group pattern for faults
- Summarize results and encourage firer

Zeroing

Before Firing - Check that the sight is dry-zeroed by: ensuring sight is centred left-right in the mount (use vertical alignment marks on front of sight mount).

ensuring sight is level when set at 200 (space between sight unit and mount base is roughly parallel)

Sight Adjustment - IRON:To move MPI Right - Turn Windage Dial Clockwise To move MPI Up - Turn Front Sight Clockwise

Sight Adjustment - OPTIC:

To move MPI Right - Turn Lateral Adjustment Screw Clockwise.

To move MPI Up - Unlock Range/Elevation Dial and Turn Dial Counter-Clockwise.

Optic Sight

Clockwise = Down & Right

After Firing Tight Group - Determine MPI, and determine correction to be applied using the given table.

Weapon	Sight	Rang	e (M)	Correct Zero	Adju	stment	
· · capon	Signe	AT	FOR	Position	Elevation	Direction	
C7	Iron	100m 300m		+ 150 mm	1/4 turn = 1 inch	1 click = 1 inch	
	Iron	25m 300m		ON POA	1/4 turn = 1/4 inch	1 click = 1/4 inch	
	Optic	100m	200m	+ 50 mm	1 click = 1 inch (24 mm)	1 click = 1 inch (24 mm)	
C9	Optic	100 300		+ 125 mm	1 click = 1 inch	1 click = 1 inch	

Wide Group



 Lack of Determination · Variation in Aiming and Holding

Split Group



• Changing Position During Firing Poor Eye Relief

· Failure to Concentrate on Aiming Pointer

Vertical Pattern



- · Poor Aiming
- · Incorrect Breathing
- · No Follow-Through · Changing Eye Relief
- · Failure to Concentrate on Aiming Pointer

Diagonal Group



- · Head not Upright Flinching
- · Trigger Snatching
- No Follow-Through
 Incorrect Hold by Trigger Hand

Tight Group



· Sights may now be adjusted to the CZP (Correct Zero Point) after 4 x 5rd groups.

Determining MPI



- ➤ Draw a rectangle connecting outer edges of all shot holes. Do not include a "wild shot".
 - ➤ Draw two lines diagonally corner-to-corner.
 - > Where these lines cross is the MPI.

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 - ◆ Trigger Operation ◆ Follow Through
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··· capon	Sig.it	AT	FOR	Position	Elevation	Direction
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	Iron	25m	300m	ON POA	1/4 turn = 1/4 inch	1 click = 1/4 inch
	Optic	100m	200m	+ 50 mm	1 click = 1 inch (24 mm)	1 click = 1 inch (24 mm)
C9	Optic	100	300	+ 125 mm	1 click = 1 inch	1 click = 1 inch

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 - holes. Do not include a "wild shot".

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 - > Where these lines cross is the MPI.

PWT Level 3 Shoot To Live

	Range	# Rds	Target	Position	Description Scoring		Remarks for Butts		
1	100	5	4' w/Fig 11, white aiming mark	firer's choice	5 rds zeroing, each shot indicated	not scored	 pull tgt after each shot, plug new hole and mark but do not patch old hole each tgt runs independently after shoot, plug all 5 holes and raise on order from FP patch on order from FP 		
2	100	5	4' w/Fig 11, white aiming mark	prone supported	shot 5 pts - 4" - 4 pts - 6" - 3 pts - 8"		- No indication during shoot - Score and record group size after serial - plug shot holes and raise tgts on order from FP - patch on order from FP - best 4 shots only to count		
3	200	5	Fig 11 in tgt frame	prone supported	HPS = 5		target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP		
4	200	10	Fig 11 handheld	prone unsupported and kneeling supported	exposure from prone position, 3 x 8 second exposures, shots per exposure from kneeling position HPS = 10 fi		- one trial exposure of 5 seconds on order from FP - tgt position varies at each exposure across 4' frontage, all tgts to move in same dir - minimum 10 seconds between exposures - plug shots and raise for indication on order - record score, patch on order from FP		
5	200	15 10 rd 5 rd mag	Fig 11 in tgt frame	fire trench or prone supported	position - firer may be in the aim HPS = 15		- no trial exposure - no indication of shots during or after serial - record score, patch on order from FP		
6	300	5	Fig 11 in tgt frame	prone supported	5 rounds deliberate, no time limit 1 pt per hit HPS = 5		target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP		
7	300	10	2 x Fig 11 in tgt frame, 4' apart	prone supported	each tgt per exposure HPS = 10 - wpn must be out of shoulder at start and		- one trial exposure - minimum 10 seconds between exposures - plug shots and raise for indication on order - record score, patch on order from FP		
8	300-25 run down	34 14 rd 20 rd mag	2 x Fig 11 in fwd tgt frame, 2 x Fig 12 in rear tgt frame	prone, kneeling and standing	begin at 400 yd point, 14 rd mag loaded, action forward and on safe	1 pt per hit HPS = 34	Use 2 x Fig 11 in front of frame, 4' apart 2 x Fig 12 in rear of frame, 4' apart		
					Details of Rundown				
Phase	Range	# Rds	Target	Position	Description		Remarks for Butts		
	400			prone	firer with 14 rd mag loaded, wpn on safe When tgt appears, double forward at trail to 300				
				prone		300	On order from FP: LOOK OUT, LOOK OUT		
1	300	6 rds	2 x Fig 11	prone					
2	300	6 rds 8 rds	2 x Fig 11 2 x Fig 11	•	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forwar	at each Fig	LOOK OUT, LOOK OUT Fig 11 up for 45 seconds,		
2		8 rds		prone	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forwar to 200 - Assume kneeling supported pos, fire 4 rds 11 - When tgts go down, STOP, wpn on safe, c rd mag	at each Fig change to 20 rail to 100 ds at each Fig	EOOK OUT, LOOK OUT Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 11 up for 45 seconds, halfmast for 10 seconds,		
2 3 4	200	8 rds	2 x Fig 11	prone kneeling supported	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forward to 200 - Assume kneeling supported pos, fire 4 rds 11 - When tgts go down, STOP, wpn on safe, or rd mag - When Fig 12's appear, double forward at tr - Adopt prone unsupported position, fire 4 rd 12 - When tgts go down, STOP, wpns on safe,	at each Fig change to 20 rail to 100 ds at each Fig stand up 2 rds at either ctor at S	EOOK OUT, LOOK OUT Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 12's up for 45 seconds,		
3	200	8 rds	2 x Fig 11 2 x Fig 12	prone kneeling supported prone unsupported kneeling	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forward to 200 - Assume kneeling supported pos, fire 4 rds 11 - When tgts go down, STOP, wpn on safe, or rd mag - When Fig 12's appear, double forward at tr - Adopt prone unsupported position, fire 4 rd 12 - When tgts go down, STOP, wpns on safe, - Adopt standing alert position When tgts appear for 8 seconds, - Adopt kneeling unsupported position, fire 2 Fig 11, firer's choice - When tgts go down, STOP, stand up, select - On command ADVANCE, firer moves at very safe or some safe.	at each Fig change to 20 rail to 100 ds at each Fig stand up 2 rds at either ctor at S walk, rifle at	EOOK OUT, LOOK OUT Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 12's up for 45 seconds, halfmast for 10 seconds, Fig 11's up for 8 seconds,		
3	200 100	8 rds 8 rds 2 rds	2 x Fig 11 2 x Fig 12 2 x Fig 11	prone kneeling supported prone unsupported kneeling unsupported	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forward to 200 - Assume kneeling supported pos, fire 4 rds 11 - When tgts go down, STOP, wpn on safe, or dr mag - When Fig 12's appear, double forward at tr - Adopt prone unsupported position, fire 4 rd 12 - When tgts go down, STOP, wpns on safe, adopt standing alert position When tgts appear for 8 seconds, adopt kneeling unsupported position, fire 17 fig 11, firer's choice - When tgts go down, STOP, stand up, selecton command ADVANCE, firer moves at walker, selector at S Firer advances to 75, stops, and when tgt aprds standing at a Fig 11, firer's choice - when tgts go down, ADVANCE at ALER'	at each Fig change to 20 rail to 100 ds at each Fig stand up 2 rds at either ctor at S walk, rifle at pears, fires 2 T to 50,	EOOK OUT, LOOK OUT Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 12's up for 45 seconds, halfmast for 10 seconds, Fig 11's up for 8 seconds, halfmast for 35 seconds, halfmast for 35 seconds,		
3	200 100 100	8 rds 8 rds 2 rds	2 x Fig 11 2 x Fig 12 2 x Fig 11 2 x Fig 11	prone kneeling supported prone unsupported kneeling unsupported standing	When tgt appears, double forward at trail to - Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forward to 200 - Assume kneeling supported pos, fire 4 rds 11 - When tgts go down, STOP, wpn on safe, or train agage. When Fig 12's appear, double forward at tr - Adopt prone unsupported position, fire 4 rd 12 - When tgts go down, STOP, wpns on safe, - Adopt standing alert position When tgts appear for 8 seconds, - Adopt kneeling unsupported position, fire 15 fig 11, firer's choice - When tgts go down, STOP, stand up, select - On command ADVANCE, firer moves at valert, selector at S Firer advances to 75, stops, and when tgt ap rds standing at a Fig 11, firer's choice - when tgts go down, ADVANCE at ALER' selector at S Firer advances to 50, stops, and when tgt ap rds standing at a Fig 12, firer's choice - when tgts go down, ADVANCE at ALER' selector at S Firer advances to 50, stops, and when tgt ap rds standing at a Fig 12, firer's choice - when tgts go down, ADVANCE at ALER' selector at S	at each Fig change to 20 rail to 100 ds at each Fig stand up 2 rds at either ctor at S walk, rifle at upears, fires 2 T to 50, upears, fires 2 T to 25, upears, fires	EOOK OUT, LOOK OUT Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 11 up for 45 seconds, halfmast for 10 seconds, Fig 12's up for 45 seconds, halfmast for 10 seconds, Fig 11's up for 8 seconds, halfmast for 35 seconds, halfmast for 25 seconds, Fig 12's up for 5 seconds,		

PWT	Le	vel 3
Shoot	To	Live

Shoot To Live							Range	Firing Point	Butts	
Serial	Range	# Rds	Target	Position	Description	Scoring	Remarks for Butts	400	firer with 14 rd mag loaded, wpn on safe When tgt appears, double forward at trail to 300	On order from FP: LOOK OUT, LOOK OUT
1	100	5	4' w/Fig 11, white aiming mark	firer's choice	5 rds zeroing, each shot indicated	not scored	- pull tgt after each shot, plug new hole and mark but do not patch old hole - each tgt runs independently - after shoot, plug all 5 holes and raise on order from FP - patch on order from FP	300	- Assume prone position - Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double forward at the trail to 200	Fig 11 up for 45 seconds, halfmast for 10 seconds,
2	100	5	4' w/Fig 11, white aiming mark	prone supported	5 rounds grouping, no indication for each shot	Group Size: 5 pts - 4" 4 pts - 6" 3 pts - 8" 0 pts > 8"	No indication during shoot Score and record group size after serial plug shot holes and raise tgts on order from FP patch on order from FP best 4 shots only to count	200	Assume kneeling supported pos, fire 4 rds at each Fig 11 When tgts go down, STOP, wpn on safe, change to 20 rd mag	Fig 11 up for 45 seconds, halfmast for 10 seconds,
3	200	5	Fig 11 in tgt frame	prone supported	5 rounds deliberate, no time limit	1 pt per hit HPS = 5	target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP		When Fig 12's appear, double forward at trail to 100 Adopt prone unsupported position, fire 4	Fig 12's up for 45
4	200	10	Fig 11 handheld	prone unsuppor ted and kneeling	2 x 5 second exposures, 2 shots per exposure from prone position, 3 x 8 second exposures,	1 pt per hit HPS = 10	- one trial exposure of 5 seconds on order from FP - tgt position varies at each exposure across 4' frontage, all tgts to move in same dir - minimum 10 seconds between exposures		- Adopt printe usupported position, life 4 rds at each Fig 12 - When tgts go down, STOP, wpns on safe, stand up - Adopt standing alert position	seconds, halfmast for 10 seconds,
					shots per exposure from kneeling position		- plug shots and raise for indication on order - record score, patch on order from FP	100	When tgts appear for 8 seconds, - Adopt kneeling unsupported position, fire 2 rds at either Fig 11, firer's choice - When tgts go down, STOP, stand up, selector at S - On command ADVANCE, firer moves at walk, rifle at ALERT, selector at S	Fig 11's up for 8 seconds, halfmast for 35 seconds,
5	200	15 10 rd 5 rd mag	Fig 11 in tgt frame	fire trench or prone supported	begin with 10 rd mag loaded in prone position - firer may be in the aim - one 40-second exposure, fire 15 rds	1 pt per hit HPS = 15	no trial exposure no indication of shots during or after serial record score, patch on order from FP			
					- change mag on own			75	appears, fires 2 rds standing at a Fig 11,	Fig 11's up for 5 seconds, halfmast for 25 seconds
6	300	5	Fig 11 in tgt frame	prone supported	5 rounds deliberate, no time limit	1 pt per hit HPS = 5	target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP			
7	300	10	2 x Fig 11 in tgt frame, 4' apart	prone supported	snap, 5 x 5 second exposures, fire 1 shot at each tgt per exposure - wpn must be out of shoulder at start and after each exposure	1 pt per hit HPS = 10	one trial exposure minimum 10 seconds between exposures plug shots and raise for indication on order record score, patch on order from FP	50	Firer advances to 50, stops, and when tgt appears, fires 2 rds standing at a Fig 12, firer's choice - when tgts go down, ADVANCE at ALERT to 25, selector at S	Fig 12's up for 5 seconds, halfmast for 25 seconds,
8	300-25 run down		2 x Fig 11 in fwd tgt frame,	prone, kneeling and	one, begin at 400 yd point, 1 pt per hit Use 2 x Fig 11 in front of frame, 4' apart eeling 14 rd mag loaded, HPS = 34 2 x Fig 12 in rear of frame, 4' apart			25	Firer advances to 25, stops, and when tgt appears, fires one burst per exposure, standing at a Fig 11, firer's choice	Fig 11's up for 5 seconds, halfmast for 5 seconds,
	20111		2 x Fig 12 in rear tgt frame	standing	safe					Fig 11's up for 5 seconds, halfmast.

Details of Rundown

PWT Level 3							Details of Rundown			
					Shoot To	Live		Range	ů ů	
Serial	Range	# Rds	Target	Position	Description	Scoring	Remarks for Butts	400	firer with 14 rd mag loaded, wpn on safe When tgt appears, double forward at trail to 300	On order from FP: LOOK OUT, LOOK OUT
1	100	5	4' w/Fig 11, white aiming mark	firer's choice	5 rds zeroing, each shot indicated	not scored	 pull tgt after each shot, plug new hole and mark but do not patch old hole each tgt runs independently after shoot, plug all 5 holes and raise on order from FP patch on order from FP 	200	- Assume prone position Fire 3 rounds at each Fig 11 - When tgts go down, STOP, wpns on safe - When Fig 11's appear again, double	Fig 11 up for 45 seconds, halfmast for 10 seconds,
2	100	5	4' w/Fig 11, white aiming mark	prone supported	5 rounds grouping, no indication for each shot	Group Size: 5 pts - 4" 4 pts - 6" 3 pts - 8" 0 pts > 8"	- No indication during shoot - Score and record group size after serial - plug shot holes and raise tgts on order from FP - patch on order from FP - best 4 shots only to count		- Assume kneeling supported pos, fire 4 rds at each Fig 11 - When tgts go down, STOP, wpn on safe, change to 20 rd mag - When Fig 12's appear, double forward at	Fig 11 up for 45 seconds, halfmast for 10 seconds,
3	200	5	Fig 11 in tgt frame	prone supported	5 rounds deliberate, no time limit	1 pt per hit HPS = 5	target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP		- when Fig 12's appear, double forward at trail to 100 - Adopt prone unsupported position, fire 4	Fig 12's up for 45
4	200	10	Fig 11 handheld	prone unsupport ed and kneeling	2 x 5 second exposures, 2 shots per exposure from prone position, 3 x 8 second exposures,	1 pt per hit HPS = 10	- one trial exposure of 5 seconds on order from FP - tgt position varies at each exposure across 4' frontage, all tgts to move in same dir - minimum 10 seconds between exposures		rds at each Fig 12 - When tgts go down, STOP, wpns on safe, stand up - Adopt standing alert position	seconds, halfmast for 10 seconds,
				supported	shots per exposure from kneeling position		- plug shots and raise for indication on order - record score, patch on order from FP	100	When tgts appear for 8 seconds, - Adopt kneeling unsupported position, fire	Fig 11's up for 8 seconds, halfmast for 35 seconds,
5	200	15 10 rd 5 rd mag	Fig 11 in tgt frame	fire trench or prone supported	begin with 10 rd mag loaded in prone position - firer may be in the aim - one 40-second exposure, fire 15 rds	1 pt per hit HPS = 15	no trial exposure no indication of shots during or after serial record score, patch on order from FP		2 rds at either Fig 11, firer's choice - When tgts go down, STOP, stand up, selector at S - On command ADVANCE, firer moves at walk, rifle at ALERT, selector at S	
					- change mag on own			75	Firer advances to 75, stops, and when tgt appears, fires 2 rds standing at a Fig 11,	Fig 11's up for 5 seconds,
6	300	5	Fig 11 in tgt frame	prone supported	5 rounds deliberate, no time limit	1 pt per hit HPS = 5	target falls when hit, then is raised immediately - plug shots and raise for indication on order - record score, patch on order from FP		rifer's choice - when tgts go down, ADVANCE at ALERT to 50, selector at S	halfmast for 25 seconds
7	300	10	2 x Fig 11 in tgt frame, 4' apart	prone supported	snap, 5 x 5 second exposures, fire 1 shot at each tgt per exposure - wpn must be out of shoulder at start and after each exposure	1 pt per hit HPS = 10	- one trial exposure - minimum 10 seconds between exposures - plug shots and raise for indication on order - record score, patch on order from FP	50	Firer advances to 50, stops, and when tgt appears, fires 2 rds standing at a Fig 12, firer's choice - when tgts go down, ADVANCE at ALERT to 25, selector at S	Fig 12's up for 5 seconds, halfmast for 25 seconds,
8	300-25 run down	34 14 rd 20 rd	2 x Fig 11 in fwd tgt frame,	prone, kneeling and	begin at 400 yd point, 14 rd mag loaded, action forward and on	1 pt per hit HPS = 34	Use 2 x Fig 11 in front of frame, 4' apart 2 x Fig 12 in rear of frame, 4' apart	25	Firer advances to 25, stops, and when tgt appears, fires one burst per exposure, standing at a Fig 11, firer's choice	Fig 11's up for 5 seconds, halfmast for 5 seconds,
			2 x Fig 12 in rear tgt frame	standing	safe					Fig 11's up for 5 seconds, halfmast.