

As with any exercise training program or physical activity there are inherent associated risks that must be considered before commencing participation. If during the exercise training session you experience headache, faintness, dizziness, muscular pain, or shortness of breath stop immediately and seek medical attention. If you are unsure of your health status in order to perform the exercise training program, please do not attempt until you see a health care provider or physician and are cleared for activity.

By undertaking the proposed exercise training regime, you are acknowledging and consenting to the inherent risks associated with the exercise training program & physical activity therein and understand that you are solely responsible for any personal injury that may occur as a result of participation.

Canada Soccer does not take responsibility for any personal injury or death that may occur as a result of participation in this exercise training program.





Conditioning Training Guide: Endurance

Training Type	Interval / Duration	Work: Rest Ratio	Speed / Intensity	Repetitions	Perceived Effort (x/10)
LI Conditioning	25 to 45+ mins	Depends if Continuous or Intermittent	 60-75% of HR_{MAX} 10-12 km/h 	1+ Rep	Low to EasyRPE = 2-3
MI Conditioning	5 to 30+ mins	Depends if Continuous or Intermittent	 76-85% of HR_{MAX} 12-16 km/h 	1-6+ Reps	 Moderate to Somewhat Hard RPE = 4-5
HI Conditioning	 10s to 20+ mins Continuous (e.g., Tempo Run) Intervals (e.g., Fitness Test) 	 1:1, 1:2 or 2:1, depends on training goal (e.g., 1min HI Run – 1min Jog / Walk) 	 86-93% of HR_{MAX} 16-18+ km/h 	1-2+ Sets1-10+ Reps	Hard to Very HardRPE = 6-7



Conditioning Training Guide: Speed

Training Type	Interval / Duration	Work : Rest Ratio	Speed / Intensity	Repetitions	Perceived Effort (x/10)
Starting Speed (Short Accelerations)	~1-3s0-20m	1:10-15(e.g., 2s sprint = 30s Rest)	As fast as possible (standing or rolling starts)	2-3+ Sets5-10+ Reps	Easy to ModerateRPE = 2-3
Repeat Sprint Ability (RSA)	• ~2-8s • 10-50m	1:5-10(e.g., 6s sprint = 60s Rest)	 95% Sprint Max Target = 23-25km/h (*May not hit maximal speed due to distance, but aim to be as close as possible) 	 2-5+ Sets 5-8+ Reps (*Depends on duration of sprint – the shorter interval the more sets) 	Hard to Very HardRPE = 7-8
Maximal Speed	• ~5-10s • 20-50m	• 1:10 • (e.g., 4s sprint = 40s Rest)	100% Sprint MaxTarget = 25+ km/h	2-3+ Sets5+ Reps	ModerateRPE = 3-5
Sprint-Endurance (Long Accelerations)	• ~10-20s • 50-100m	• 1:8-10 • (e.g., 10s sprint = 80s Rest)	90-95% Sprint MaxTarget = 21-25km/h	2-3+ Sets5+ Reps	ModerateRPE = 3-5
Speed-Endurance	• 6-30s • 100+ m	1:3(e.g., 6s sprint = 18s Rest)	 95% Sprint Max Target = 23-25km/h (*May not hit maximal speed due to distance, but aim to be as close as possible) 	 1-2+ Sets 5-10+ reps (*Depends on duration of sprint – the shorter interval the more sets) 	Very HardRPE = 8-9



Conditioning Training Guide: Agility/Coordination

Training Type	Interval / Duration	Work : Rest Ratio	Speed / Intensity	Repetitions	Perceived Effort (x/10)
Agility / SAQ	~4-8	1:6-10 (e.g., 6s sprint = 36- 60s Rest)	Progressively increase movement speed	2-3+ Sets5+ Reps	Easy to ModerateRPE = 2-3
Coordination	Depends on drill demands, but relatively short	1:6-10 (e.g., 4s sprint = 24- 40s Rest)	Intense in execution of drill	2-3+ Sets5-10+ Reps or perform	Easy to ModerateRPE = 2-3

[•] SAQ – Speed, Agility, Quickness



Warm-Up Model: R.A.M.P.

	RAISE Low-intensity activities, aim to get body moving	 个 Body Temperature 个 Heart Rate 个 Blood Flow 个 Respiration Rate
	ACTIVATE Exercises targeting key muscle groups (e.g., Glutes, Hip stabilizers, Calf, Hamstring etc.)	 Mini-band drills Glute bridge Hamstring curl Calf raise
	MOBILISE Dynamic movement & ranges of motion to be used in training focus	Focus on movementMovement SpecificityMobility & Stability
<u>-</u> /\$-	POTENTIATION Activities that improve effectiveness of subsequent performance, e.g., training speed, match speed etc.	 ↑ Intensity & Excitation Post-Activation Potentiation (PAP) / Enhanced Performance ↑ Strength & Power



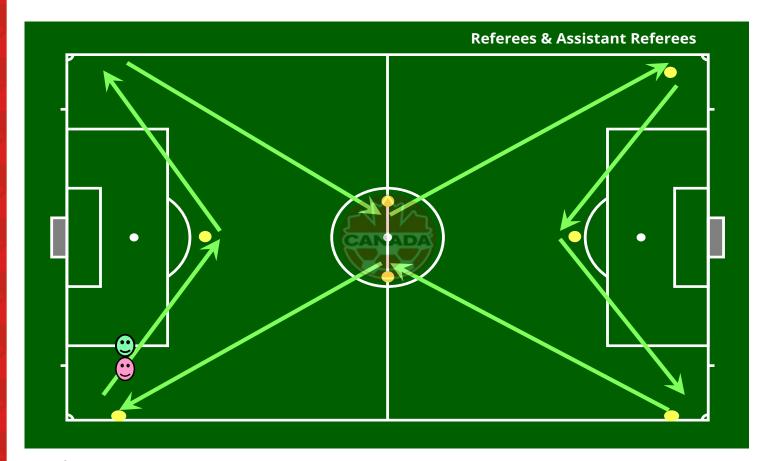
Warm-Up & Cool Down

- Warm-Up and Cool Down should be performed at each training session
- Warming up (15-25 minutes) Example plan:

Intro (5 min)	Mobility (5-10 min)	Dynamic stretching (5 min)	Agility & Coordination (2-5 min)	Speed (2-5 min)
Jogging	 Jogging with arm movements Turning arms while jogging Heel lifts Knee lifts Backwards jogging Sideways L & R 'lambada' L & R Cycling in & outside 	 Adductors Abductors Hamstrings Quadriceps Calves 	 Exercises 'through' cones (e.g. 2 touches forwards, sideways L & R) One high knee L or R (dynamic) One heel lift L or R (dynamic) 	 Short accelerations 5-10- 15 m With dynamic starts

- Cooling down (10-15 minutes)
 - Walking, jogging and stretching
 - **Note:** take your time to stretch! Flexibility is important to keep the range of motion functional high to prevent injuries and recover faster from intense exercises

LI Conditioning



Exercise

Set 1: 30 min continuous jogging

- Pace should be between 10-12 km/h, but can vary depending upon your feeling
- Alternative:
 - Treadmill Set to appropriate speed of 10-12 km/h on treadmill
 - Track Use watch to keep track of lap times for pacing (~2-3-mins per lap)

1 Set of 30-minutes

Set 1		30 min
Recovery		10 min
Total duration		± 40 min
Walking	W	
Jogging	J	± 5500m
Backwards	BW	
Sideways	SW	
High Intensity	HI	
Sprint	S	
Total distance		± 5500m

Note: This workout should be high quality, but non-fatiguing.

If no access to a field, then you can modify this workout accordingly using the running speed (10-12km/h) and adjust to your available environment (i.e., Track, Road or Treadmill).



LI Conditioning

Alternative LI Conditioning / MD (+1) – Active Recovery

Aim: Endurance - Continuous running - Low Intensity (LI)

Exercise:

- 30 min continuous jogging at low pace (10-12 km/h)
- A short acceleration of 100m (16-18 km/h) every 5 min

Note:

- Straight running without too much changes of direction
- This session can be done on different surfaces, not necessarily a field, but can be performed on other surfaces (e.g., Road, Trail, Track or Treadmill etc.)

Individualized activity:

• If you feel fatigue or tiredness from the previous training (or match) then can replace the running training with an alternative activity (e.g., biking, rowing, swimming etc.).

Cycling

- HR 70% Hrmax
- Total duration: +/- 90 min



Swimming

- 20 min nonstop as target (3 sets)
- Total duration: +/- 60 min activity



Gym

- HR 75% Hrmax
- Total duration: +/-45 min activity

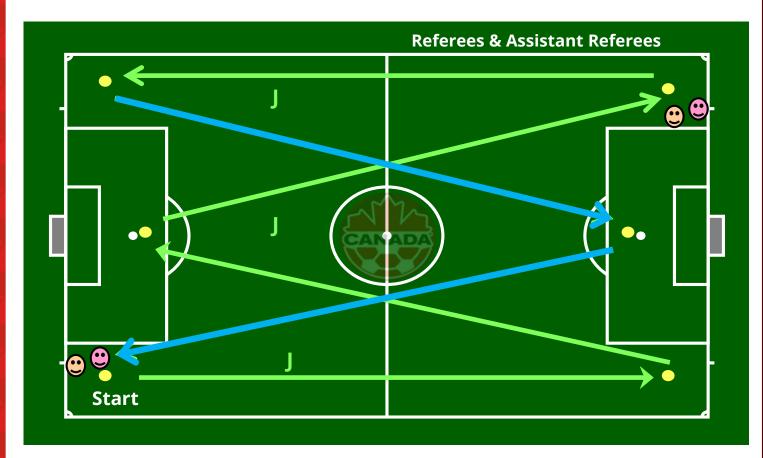


- ✓ Crosswalker 15 min
- ✓ Rowing 15 min
- ✓ Step or Stairs 15 min





MI Conditioning



Exercise – MI – Interval

- 7x (3-min running at MI to HI, followed by 2-min Recovery (Jog / Walk)
- Running at MI to HI (13-15 km/h) during 3-min, followed by 2-min walking-jogging
- Repeat same exercise: 7 Sets in total

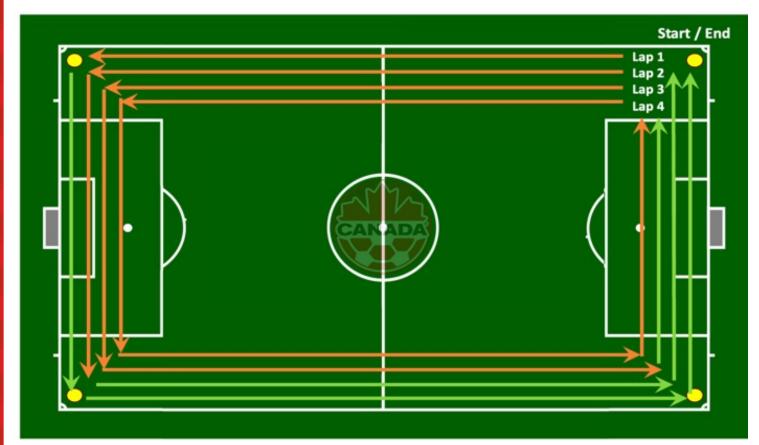
7 Sets of 5-min

Set 1		3 min
Recovery		2 min
Set 2 – 7		18 min
Recovery		12 min
Total duration		± 35 min
Per set		
Walking	W	200m
Jogging	J	650m
Backwards	BW	
Sideways	SW	
High Intensity	н	
Sprint	S	
Total distance		± 850m

Note: If no access to a field, then you can modify this workout accordingly using the running speed (~13-15km/h) and adjust to your available environment (i.e., Track, Road or Treadmill).



MI Conditioning



Exercise – MI – Interval

Set 1

- Lap 1 = 2 20-25s Run at 85-90% HR_{MAX} (2 100m), 85s recovery Jog
- Lap 2 = 4 0s Run at 85-90% HR_{MAX} (1 70-200m), 60s recovery Jog
- Lap 3 = $^{\circ}$ 60s Run at 85-90% HR_{MAX} ($^{\circ}$ 240-300m), 25s recovery Jog
- Lap 4 = ~80s Run at 85-90% HR_{MAX} (~340-400m)

Recovery: 4-min per Set

3 Sets of 4 Laps

Set 1 (4 laps)	~6-6.5 min
Recovery	4 min
Set 2 (4 laps)	~6-6.5 min
Recovery	4 min
Set 3 (4 laps)	~6-6.5 min
Total duration	± 27 min

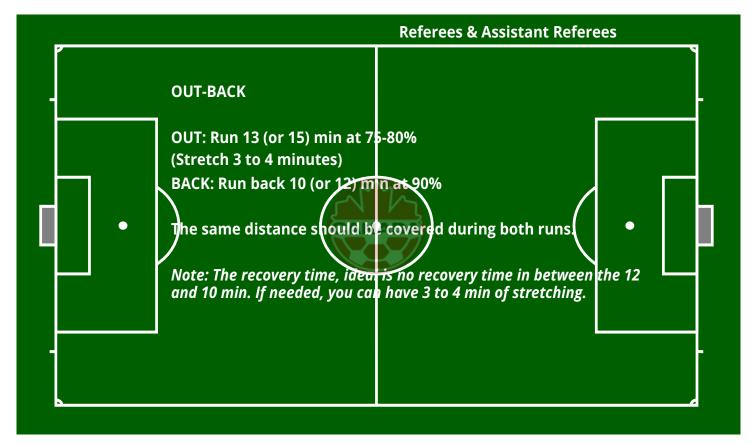
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Total distance		± 4080 m
Sprint	S	
High Intensity	HI	2640 m
Sideways	SW	
Backwards	BW	
Jogging	J	1440 m
Walking	W	

Note: This session can be performed on any surface (e.g., Road, Track or Treadmill).



MI Conditioning



Exercise – MI – Duration

- This session is a combination of MI-Jogging (~75% HRMAX) OUT for 13-15 min and MI to HI- Tempo run BACK in 10-12 min (~85-90% HRMAX). The same distance should be covered during both runs.
- Proposed running speeds:
 - OUT 10-12 km/h
 - BACK 12-16 km/h

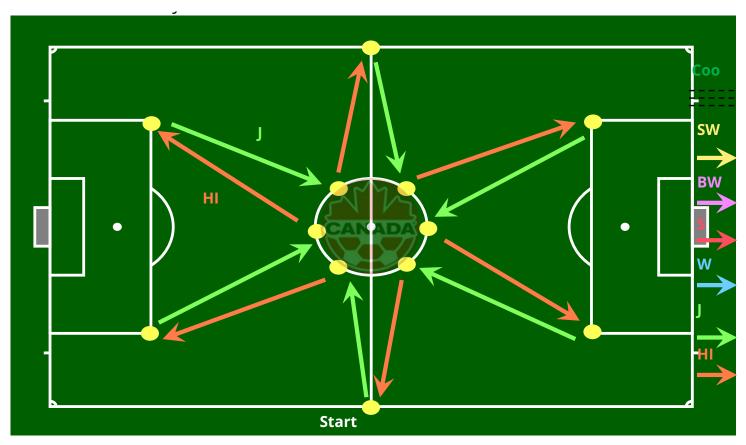
Out & Back Run

Set 1		12-15 min
Recovery		4 min
Set 2		10-12 min
Total duration		± 26-31 min
Per Set:		
Walking	W	
Jogging	J	2800 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	2800 m
Sprint	S	
Total distance		± 5600 m

Note: Training intensity for this session on the 'Back' run should Moderate Intensity (MI), i.e., below FIFA Interval Test running speed. Keep an eye on your HR monitor for HR & Speed to ensure Moderate Intensity. This session can be performed on any surface (e.g., Road, Track, Field or Treadmill).



HI Conditioning



Exercise

- 3 Sets of 8-min of the exercise
- Run the exercise as shown for 8-min (HI Run / Jog).
 - Women run pace = ~16-18 km/h
 - Men run pace = $^{\sim}18-20 \text{ km/h}$

Recovery: 2-min per Set

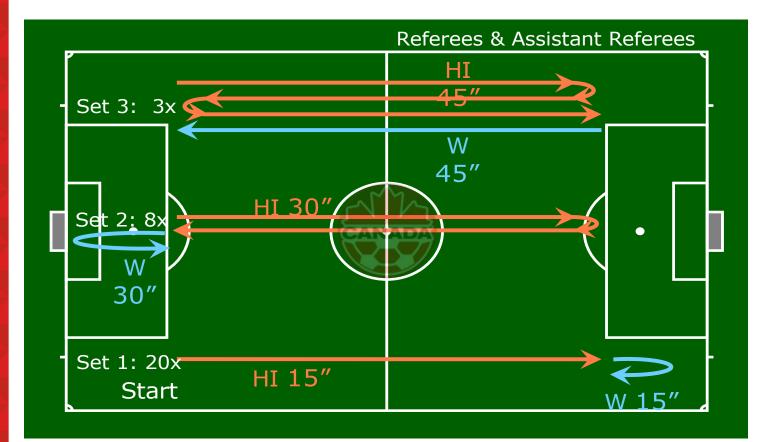
2 Sets of 8 Minutes

Set 1		8 min
Set 2		8 min
Set 3		8 min
Recovery		2 min per Set
Total duration		± 30 min
Per Set:		
Walking	W	
Jogging	J	180 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	180 m
Sprint	S	
Total distance		± 360 m

Note: Ideally perform this drill on a marked field with center circle. If no access to a field, then you can modify this workout accordingly using the running speed and adjust to your available environment (i.e., Track, Road or Treadmill).



HI Conditioning



- **Set 1:** Run from one penalty area to the other in 12-15sec ($^{\sim}18$ km/h). Walk to goal area line and back in 15sec. Repeat x20 times = 10 min. ($20 \times 75m$)
- **Recovery:** 3-4 min
- **Set 2:** Run twice from penalty area to penalty area in 30sec (~18 km/h). Walk from penalty area to goal line & back in 30sec. Repeat x8 times = 8 min. (8 x150m)
- **Recovery:** 3-4 min
- Set 3: Run three times from penalty area to penalty area in 45sec ($^{\sim}18$ km/h). Walk, from one penalty area to the other in 45-sec. Repeat x3 times = 4.5 min. ($3 \times 225m$)



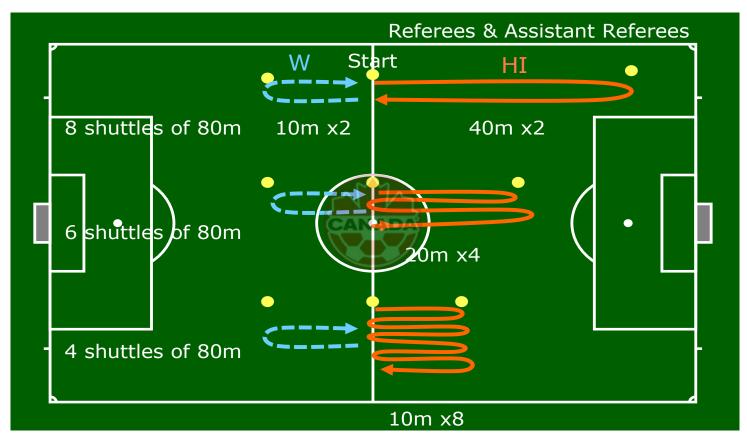
3 Sets of HI Runs

Total distance		4210m
Sprint	S	
High Intensity	HI	3375m
Sideways	SW	
Backwards	BW	
Jogging	J	
Walking	W	835m
Total duration		± 31 min
Set 3 (3 reps)		4.5 min
Recovery		3-4 min
Set 2 (8 reps)		8 min
Recovery		3-4 min
Set 1 (20 reps)		10 min

Note: Always ideal to train out on the field, but if no access to a field, then you can modify this workout accordingly using the running speed (~18km/h) & the run durations (i.e., 15s, 30s, 45s) to adjust to your available environment (i.e., Track, Road or Treadmill).



HI Conditioning



Yo-Yo based exercise: shuttles of 80m

- Set 1: 8 shuttles (40m x2 = 80m) to be completed in 17s / 30s recovery walk
- **Recovery:** 3-min
- Set 2: 6 shuttles (20m x4 = 80m) to be completed in 19s / 30s recovery walk
- Recovery: 3-min
- Set 3: 4 shuttles (10m x8 = 80m) to be completed in 21s / 30s recovery walk



3 Sets of Shuttle Runs

Total duration	± 21 min
Recovery	3 min per Set
Set 3	3.5 min
Set 2	5 min
Set 1	6.5 min

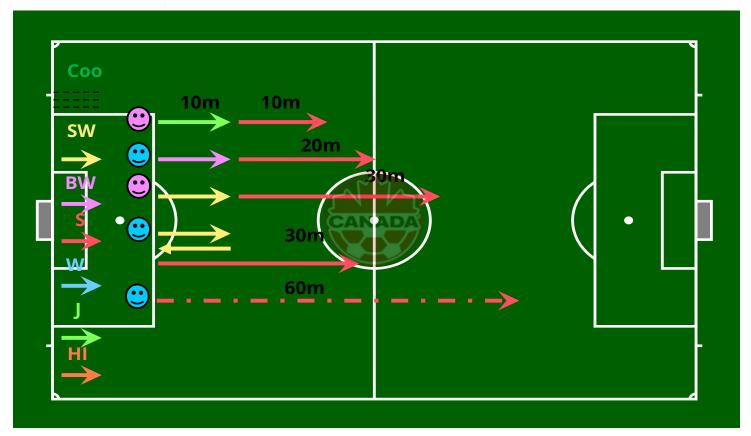
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High Intensity	HI	1440 m
Sideways	SW	
Backwards	BW	
Jogging	J	
Walking	W	360 m

Note: Ideally perform this drill on marked field, but this can be modified to a space that has enough space for the running distance.



Starting Speed



Exercise

- Set 1: Perform the following sprints at near maximal effort x3 reps for each exercise:
 - 10m Jogging, 10m Sprint / 10m BW / 20m Sprint
 - 10m SW-right, turn, 30m Sprint / 10m SW-right, 10m SW-left, turn, 30m Sprint
 - 60m progressive accelerations (building up speed, but not reaching top-speed), focus on control of body and focusing on running technique

Recovery: 5-10 mins of Active recovery / Cool-down stretching

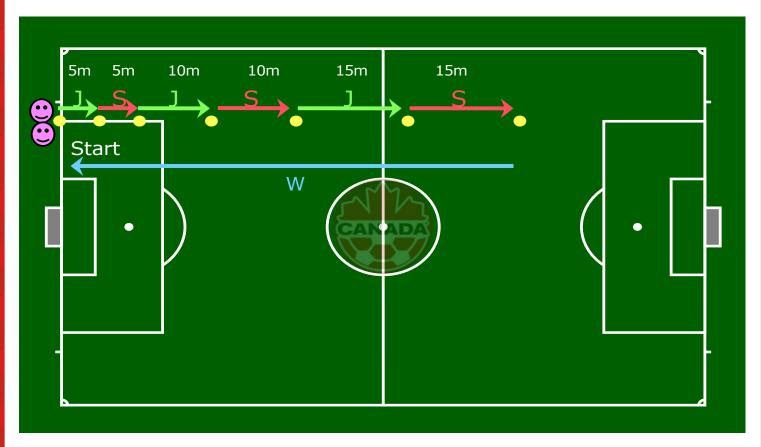
1 Set of 5 Exercises

Set 1 (4 reps)		± 14 min
Recovery		4 min
Total duration		± 18 min
Walking	W	200 m
Jogging	J	10 m
Backwards	BW	10 m
Sideways	SW	30 m
High Intensity	HI	
Sprint	S	150 m
Total distance		± 500 m

Note: Use your watch to determine the recovery time between reps. Your HR should be +/- 120 bpm or ~60-65% HR_{MAX} before starting the next repetition. Important to try to have each sprint near full effort. Ideally perform on a field, but can be performed on any dry, flat surface (e.g., Track, Road).



Starting Speed





- **Set 1:** Jog to the first cone, Sprint to the 2nd cone, Jog to the 3rd cone, Sprint to the 4th cone, Jog to the 5th cone, Sprint to the 6th cone. Walk back to the start.
- 4 laps in total
- Variation: Instead of Jogging, Run Backwards or Side-ways.

Recovery: 5-10 mins of Active recovery / Cool-down stretching



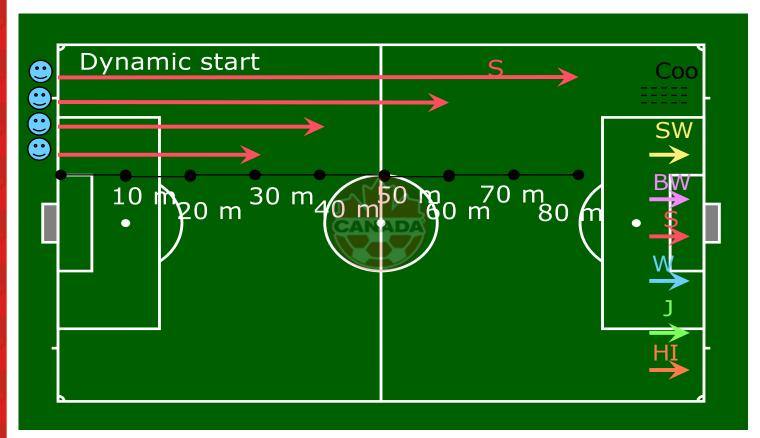
1 Set of 4 Laps

One Lap Set 1 (4 laps)		± 2.5 min 10 min
Total duration		± 10 min
Walking	W	240 m
Jogging	J	120 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	
Sprint	S	120 m
Total distance		± 480 m

Note: Ideally perform on a field, but can be performed on any dry, flat surface (e.g., Track, Road).



Speed – RSA



Exercise

- **Set 1:** 6 sprints x 80m (± 12s), 1:6 recovery; ~7.5 to 8 min total
- Set 2: 6 sprints x 60m (± 9s), 1:6 recovery; ~6 min total
- Set 3: 6 sprints x 40m (± 6s), 1:6 recovery; ~4 min total
- **Set 4:** 6 sprints x 30m (± 4.5s), 1:6 recovery; ~4 min total





4 Sets of Sprints

Set 1 (6 x 80 m)		~8 min
Set 2 (6 x 60 m)		6 min
Set 3 (6 x 40 m)		~4 min
Set 4 (6 x 30 m)		~4 min
Recovery		2 min
Total duration		± 20 min
Walking	W	660 m
Jogging	J	660 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	
Sprint	S	1320 m

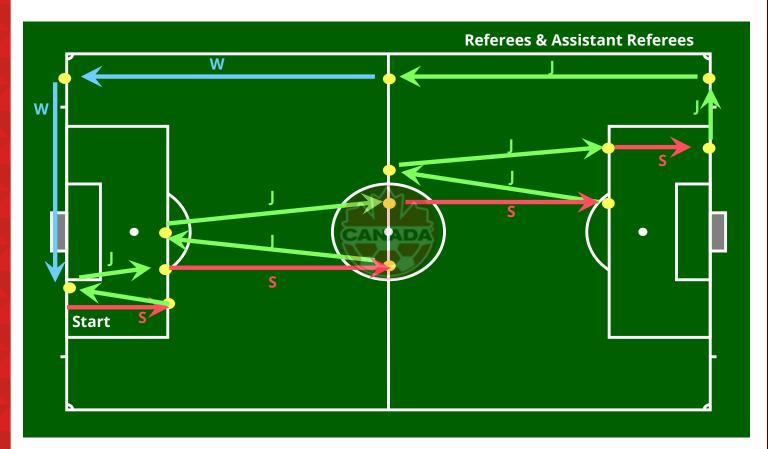
Note: Ideally perform on a field, but can be performed on any surface (e.g., Track, Road).

Total distance

± 2640 m



Speed – RSA



Exercise

• **Set 1:** Run 4 laps of the Repeated Sprint Ability (RSA – Sprint – Jog – Jog) drill

• Set 2: Repeat

Recovery: 2 to 4 min in between Sets

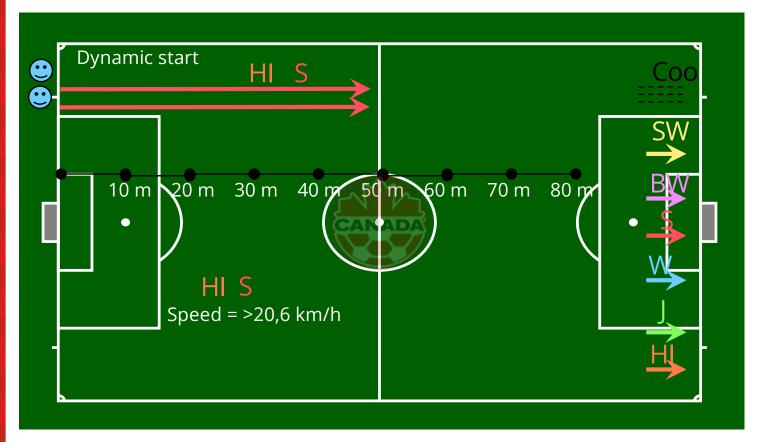
2 Sets of 4 Laps

One rep		~2.5 min
Set 1 (4 laps)		10 min
Recovery		4 min
Set 2 (4 laps)		10 min
Total duration		± 20 min
Walking	W	90 m
Jogging	J	250 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	
Sprint	S	100 m
Total distance		± 440 m

Note: Important to try to have each sprint near full effort. Ideally perform on a field, but can be performed on any dry, flat surface (e.g., Track, Road).



Speed – Max



Exercise

- **Set 1:** 5 accelerations x50m in <8s (20-22 km/h) with 60s recovery walk after each acceleration
- **Set 2:** 5 accelerations x50m in <8s (20-22 km/h) with 60s recovery walk after each acceleration

Recovery: 2-min recovery between each Set

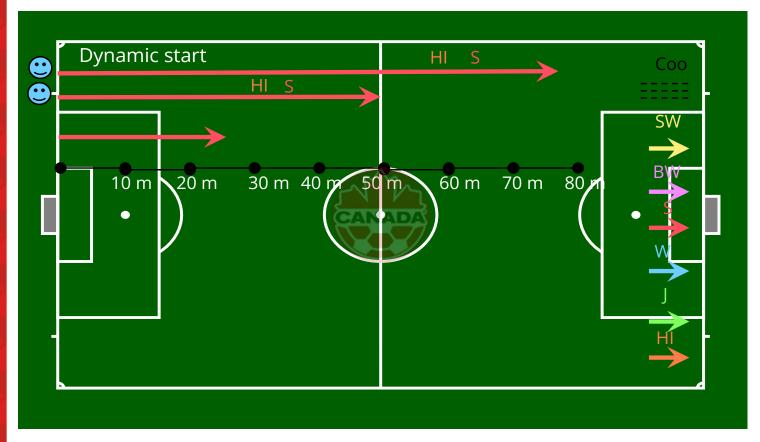
2 Sets of Accelerations

	5 min 5 min
	2 min
	± 12 min
W	250 m
J	
BW	
SW	
HI	
S	250 m
	± 500 m
	J BW SW HI

Note: Ideally perform on a field, but can be performed on any surface (e.g., Track, Road).



Speed – Endurance



Exercise

- Set 1: x4 Tempo runs x25m in ~5s (18-20 km/h) with 30s recovery after each run
- Set 2: x4 Tempo runs x50m in ~10s (18-20 km/h) with 45s recovery after each run
- Set 3: x4 Tempo runs x75m in ~15s (18-20 km/h) with 60s recovery after each run

Recovery: 2-min recovery between each Set

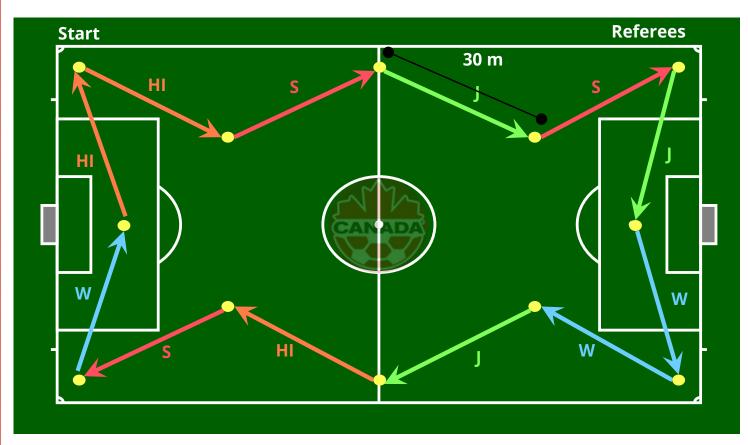
3 Sets of Tempo Runs

Set 1 (4 x 25 m)		~2.5 min
Set 2 (4 x 50 m)		~3.5 min
Set 3 (4 x 75 m)		5 min
Recovery		2 min
Total duration		± 10 min
Walking	W	600 m
Jogging	J	
Backwards	BW	
Sideways	SW	
High Intensity	HI	600 m
Sprint	S	
Total distance		± 1200 m

Note: Ideally perform on a field, but can be performed on any surface (e.g., Track, Road).



Speed – Endurance



Exercise

• Set 1: Run 6 laps (~12-mins) of the field specific exercise

• Recovery: 4-min

• Set 2: Repeat

Alternative:

 Track – Divide a 400m track into ~30m sections and perform the drill pattern as displayed starting with HI run

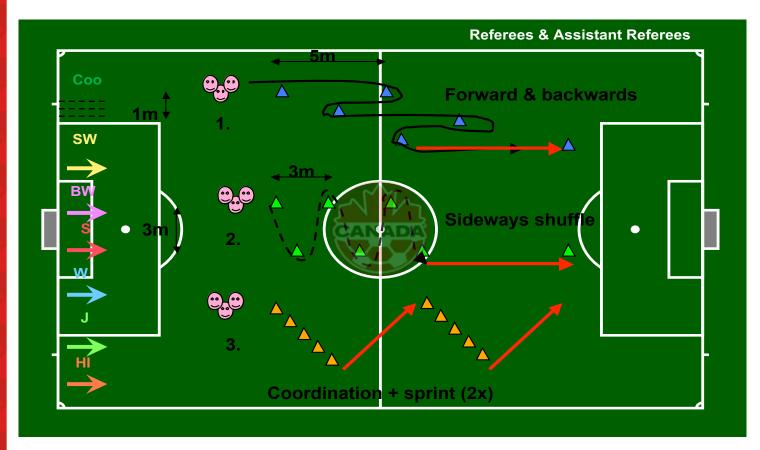
2 Sets of 6 Laps

One lap		2 min
Set 1 (6 laps)		12 min
Recovery		4 min
Set 2 (6 laps)		12 min
Total duration		± 28 min
Walking	W	90 m
Jogging	J	90 m
Backwards	BW	
Sideways	SW	
High Intensity	HI	90 m
Sprint	S	90 m
Total distance		± 360 m

Note: Important that sprint sections of drill are performed ~95% of sprint speed.



SAQ / Agility



Exercise

- **Set 1:** 3 different Speed-Agility-Quickness exercises + short Sprint = 1 Set
 - Forwards & Backwards moving + Sprint (15m) / Sideways shuffle + Sprint (15m) / Fast feet in between cones (Coordination) + Sprint (2x 10m)
- Set 2: Repeat

Recovery: 3-4 min stretching in between Sets

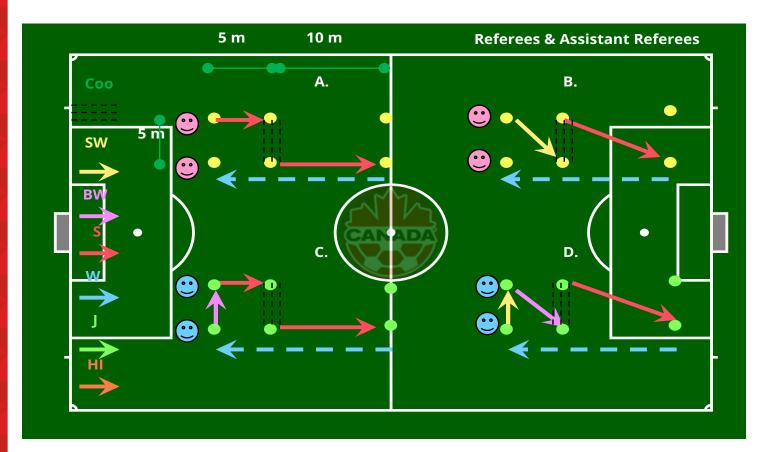
2 Sets of 3 Exercises

Set 1 (3 Ex.)		± 3 min
Recovery		4 min
Set 2 (3 Ex.)		± 3 min
Total duration		± 10 min
Walking	W	90 m
Jogging	J	
Backwards	BW	10 m
Sideways	SW	25 m
High Intensity	н	
Sprint	S	50 m
Total distance		± 175 m

Note: All exercises must be performed near maximal effort in to gain physiological training benefit. This work should be quality and non-fatiguing. Ideally perform on a field, but can be performed on any dry, flat surface (e.g., Track, Road).



SAQ / Agility



Exercise

- **Set 1:** Short movements combined with short Sprints. A B C D; repeat each exercise twice (1 Set = 8 reps). Full Recovery by walking back to starting position. In the ladder (Coordination), you can choose your own Coordination exercises.
- **Set 2 & 3:** Repeat

Recovery: 1-2 min extra Active Recovery in between Sets

2 Sets of 4 Exercises

Total duration	± 15 min
Set 2 & 3	min
Recovery	1 min
Set 1 (8 raps)	4 min
One Rep	30 sec

Per Set:

Coordination	Coo	20 m
Walking	W	40 m
Jogging	J	
Backwards	BW	10 m
Sideways	SW	10 m
High Intensity	HI	
Sprint	S	50 m
Total distance		± 130 m

Note: Speed combined with Agility. All exercises must be performed near maximal effort in to gain physiological training benefit. This work should be quality and non-fatiguing. Your HR should be +/- 120 bpm or $^{\sim}60-65\%$ HR_{MAX} before starting the next repetition.



