## Performance Training in Football Refereeing Weekly Training Plan

WEEK 7 from Monday $13^{\text {th }}$ to Sunday $19^{\text {th }}$ of February Macrocycle VII, week 1 (Training week 37)

| $\frac{\text { Mon. } 13^{\text {th }}:}{\text { Tr. } 138}$ | * Act. Rec. | - 50' recovery session in a fitness centre. |
| :---: | :---: | :---: |
| Tue. $14^{\text {th }}$ : | * Low Int. | - 5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km}$ ). |
| Tr. 139 | * Warm up | - 20' jogging, mobilisation and dynamic stretching. |
|  | * Strength | - 15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 "-30" exercises). |
|  | * Rep. Spr. Ab. | - Set 1 (using a dynamic start): |
|  |  | $\begin{aligned} & >6 \text { sprints over } 80 \mathrm{~m}( \pm 12 \text { "), } 1: 6 \text { recovery } \\ & >7 \text { '30" in total } \\ & >2^{\prime} \text { recovery } \end{aligned}$ |

- Set 2 (using a dynamic start):
$>6$ sprints over 40 m ( $\pm$ 9"), 1:6 recovery
> 6' in total
> 2' recovery
- Set 3 (using a dynamic start):
$>6$ sprints over $40 \mathrm{~m}( \pm 6$ "), 1:6 recovery
> 3'40" in total
> 2' recovery
- Set 4 (using a dynamic start):
$>4$ sprints over $40 \mathrm{~m}( \pm 6$ "), 1:6 recovery
$>2^{\prime} 20^{\prime \prime}$ in total
> 2' recovery

W. Helsen T + 3216329068 F +32 16329197 M +32 477425534 E werner.helsen@kuleuven.be p. 1
- All together, 22 sprints ( $90 \%$ SPmax) should be performed from a dynamic start position. Decelerate smoothly, turn and jog back to the start.
- The total duration of this RSA session is $\pm 19^{\prime} 30^{\prime \prime}$.
* High Int. - The following high intensity exercise can be easily done on any surface using the audio file of the Yo-Yo test, as follows:
- Start with levels 15, 16 and 17 (takes 7:30), 2 minutes rest
- then repeat levels 16 and 17 (takes 5 minutes), 2 minutes rest,
- then repeat level 16 (takes $2: 30$ ). Great HI session that takes 19'!
* Cool down $-5^{\prime}$ jogging and walking, followed by 10 ' static stretching.

Total duration: 94'
Wed. $15^{\text {th }}$ :
Thu. $16^{\text {th }}$ : * Low Int.
REST DAY

Tr. 140

* Warm up - 20’ jogging, mobilisation and dynamic stretching.
* Strength -15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 "-30" exercises).
* High Int. - Set 1: Referees perform 5 laps
- Run at the appropriate intensity around the pitch perimeter.
- However, on lap 1 run around cone 1, and so on up to cone 5 on lap 5 , thus increasing the run distance with each subsequent lap.
- The target zone should be $90 \% \mathrm{HR}_{\text {max }}$.


[^0]- 2' recovery
- Set 2:
- However, on lap 1 start with cone 5 , and on LAP 5 finish with cone 1 , thus decreasing the run distance with each subsequent lap.
- This exercise takes $\pm 22^{\prime}\left(10^{\prime}\right.$ Set $1+2$ recovery $+10^{\prime}$ Set 2 ).
* Match -10' match play
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: 87 $^{\prime}$
Fri. $17^{\text {th }}: \quad$ REST DAY
$\begin{aligned} \frac{\text { Sat. } 18^{\text {th }}:}{\text { Tr. } 141} & \text { * Warm up }\end{aligned} \quad-20$ ' jogging, mobilisation and dynamic stretching.

- Walk back to the start after each individual sprint.
- Once the 5 sprints ( 140 m total sprinting distance) have been completed take a $5^{\prime}$ stretching break.

- Then perform a second set of sprints for a session total of 10 sprints. Start the sprints this time sideways right, and turn on the opposite shoulder to the first set when turning from backwards jogging to sprinting.
- The total exercise time is $15^{\prime}$.

X
W. Helsen T+3216329068 F +32 $16329197 \quad$ M +32 477425534 E werner.helsen@kuleuven.be p. 3

* Cool down -5 ' jogging and walking, followed by 10 ' static stretching.

Total duration:
$50^{\prime}$
Sun. 19 ${ }^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.

WEEK 8 from Monday $20^{\text {th }}$ to Sunday $26^{\text {th }}$ of February

## Macrocycle VII, week 2 (Training week 38)

| $\frac{\text { Mon. } 20^{\text {th }}:}{\text { Tr. } 142}$ | * Act. Rec. | - 50' recovery session in a fitness centre. |
| :---: | :---: | :---: |
| Tue. $21^{\text {st. }}$ : | * Low Int. | -5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$ |
| Tr. 143 | * Warm up | -20' jogging, mobilisation and dynamic stretching. |
|  | * Strength | - 15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL |

* High Int. - Set 1:
-20 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 100 \mathrm{~m}), 10$ " jogging
-40 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 200 \mathrm{~m}), 20^{\prime \prime}$ jogging
-60 " run at $90 \% \mathrm{HR}_{\max }( \pm 300 \mathrm{~m}), 30$ " jogging
$-80^{\prime \prime}$ run at $90 \% \mathrm{HR}_{\text {max }}( \pm 400 \mathrm{~m}), 40^{\prime \prime}$ jogging
-20 " run at $90 \% \mathrm{HR}_{\max }( \pm 100 \mathrm{~m}), 10^{\prime \prime}$ jogging
$-40^{\prime \prime}$ run at $90 \% \mathrm{HR}_{\max }( \pm 200 \mathrm{~m}), 20^{\prime \prime}$ jogging
-60 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 300 \mathrm{~m}), 30$ " jogging
$-80^{\prime \prime}$ run at $90 \% R_{\max }( \pm 400 \mathrm{~m}), 40^{\prime \prime}$ jogging
- 2' recovery
- From a coaching point of view, the easiest way to run this intermittent exercise, is to whistle each time the referees have to change from activity. For Set 1 and 2, the time line is:

0 (20" HI tempo) - 20" (J) - $30^{\prime \prime}(\mathrm{HI})-1^{\prime} 10^{\prime \prime}(\mathrm{J})-1^{\prime} 30^{\prime \prime}(\mathrm{HI})-2^{\prime} 30^{\prime \prime}(\mathrm{J})-$ $3^{\prime}(\mathrm{HI})-4^{\prime} 20^{\prime \prime}(\mathrm{J})-5^{\prime}(\mathrm{HI})-5^{\prime} 20^{\prime \prime}(\mathrm{J})-5^{\prime} 30^{\prime \prime}(\mathrm{HI})-6^{\prime} 10^{\prime \prime}(\mathrm{J})-6^{\prime} 30^{\prime \prime}(\mathrm{HI})$

- $7^{\prime} 30^{\prime \prime}(\mathrm{J})-8^{\prime}(\mathrm{HI})-9^{\prime} 20^{\prime \prime}(\mathrm{J})-10^{\prime}$ (Stop)
- For the next set, the same time table can be used:
- Set 2:
-80 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 400 \mathrm{~m}), 40$ " jogging
-60 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 300 \mathrm{~m}), 30$ " jogging
$-40^{\prime \prime}$ run at $90 \% \mathrm{HR}_{\max }( \pm 200 \mathrm{~m})$, 20" jogging
$-20^{\prime \prime}$ run at $90 \% \mathrm{HR}_{\text {max }}( \pm 100 \mathrm{~m}), 10$ " jogging
-80 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 400 \mathrm{~m}), 40$ " jogging
$-60 "$ run at $90 \% \mathrm{HR}_{\text {max }}( \pm 300 \mathrm{~m}), 30$ " jogging
$-40^{\prime \prime}$ run at $90 \% \mathrm{HR}_{\max }( \pm 200 \mathrm{~m}), 20^{\prime \prime}$ jogging
-20 " run at $90 \% \mathrm{HR}_{\max }( \pm 100 \mathrm{~m}), 10^{\prime \prime}$ jogging
- All together, this takes $10^{\prime}+2^{\prime}$ recovery $+10^{\prime}=22^{\prime}$.
* Cool down $-5^{\prime}$ jogging and walking, followed by 10 ' static stretching.

Total duration: 78'

Wed. $22^{\text {nd. }}$
Thu. $23^{\text {rd. }}$ * Low Int.
Tr. 144

* Warm up
* Strength
* Speed End.


## REST DAY

- 5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$.
-20 ' jogging, mobilisation and dynamic stretching.
- 15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 "-30" exercises).
- Set 1:
- 2 laps of the following field exercise.
- The running speed should be minimum $95 \%$ SP $P_{\text {max }}$.
- One lap consists of 7 (sub)maximal sprints followed by 7 recovery jogs. The jogging should take $3 \times$ longer than the duration of the tempo run. After reaching the finish, referees jog all along the goal line until the next corner and then walk back to the start position. It takes $\pm 13$ ' to do 2 full laps.
-4' recovery
- Set 2
- Again 2 laps of 7 sprints.

- The exercise takes $\pm 31^{\prime}\left(13^{\prime}\right.$ Set $1+4^{\prime}$ recovery $+13^{\prime}$ Set 2 ).
* Cool down -5 ' jogging and walking, followed by 10' static stretching.

Total duration: 86'
Fri. $24^{\text {th }}: \quad$ REST DAY
Sat. 25 ${ }^{\text {th }}: \quad$ *Warm up $-20^{\prime}$ jogging, mobilisation and dynamic stretching.

[^1]$$
\text { *Speed } \quad \text { - Set 1: }
$$

- (1) Sprint for 10 m , then walk for 30 m . (2) Sprint for 20 m , then walk for 20 m . (3) Sprint for 30 m , then walk for 10 m . (4) Sprint for 40 m .
- 3' recovery


Total duration: 50'
Sun. $26^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.

WEEK 9 from Monday $27^{\text {th }}$ of February to Sunday $4^{\text {th }}$ of March

## Macrocycle VII, week 3 (Training week 39)

Mon. $27^{\text {th }}: ~ * ~ A c t . ~ R e c . ~-50 ' ~ r e c o v e r y ~ s e s s i o n ~ i n ~ a ~ f i t n e s s ~ c e n t r e . ~$
Tr. 146
Tue. $28^{\text {th }}$ : * Low Int. $\quad-5^{\prime}$ jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$.
Tr. 147

* Warm up $\quad-20^{\prime}$ jogging, mobilisation and dynamic stretching.
* Strength $\quad-15$ ' strength, core stability and injury prevention exercises.
(abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 " -30 " exercises)
* Rep. Spr. Ab. - Same organisation as for Training session 139
- Set 1 (using a dynamic start):
$>6$ sprints over $80 \mathrm{~m} \mathrm{( } \pm 12^{\prime \prime}$ ), 1:6 recovery
$>7^{\prime} 30^{\prime \prime}$ in total
> 2' recovery
- Set 2 (using a dynamic start):
> 6 sprints over $60 \mathrm{~m}( \pm 9 "), 1: 6$ recovery
$>6$ ' in total
$>2$ 2' recovery
- Set 3 (using a dynamic start):
$>6$ sprints over $40 \mathrm{~m}( \pm 6 "), 1: 6$ recovery
$>3^{\prime} 40^{\prime \prime}$ in total
> 2' recovery
- Set 4 (using a dynamic start):
$>8$ sprints over $30 \mathrm{~m}( \pm 4.5$ "), 1:6 recovery
$>4^{\prime}$ in total
> 2' recovery
- All together, 26 sprints ( $90 \%$ SPmax) should be performed from a dynamic start position. Decelerate smoothly, turn and jog back to the start. The total duration of this RSA session is $\pm 19^{\prime} 30$ ".
* High Int. - Set 1: Field exercise, 10 to 12 x
- From the start, run at high intensity to the other side of the field, turn around the cone and return at high intensity ( 150 m in total in 30 sec ) as indicated in the picture, afterwards walk back to the start ( 50 m in 35 sec ) and repeat this 10 laps. The fitness level determines around which cone the referees may turn
- 4' recovery
- Set 2: Same as set 1, however, run in the opposite direction.
- All together, this HI exercise takes 19' 40 ", including 2' rec.

* Concentration: - When the referee arrives in the penalty area after his 150 m run, the coach moves along the edge of the penalty area with a ball in his hands. When he bounces the ball on the ground, the referee has to decide if it is a foul for the attacking team inside (>penalty) or outside (> free kick) the penalty area. If the referee's decision is correct > thumbs up, if not $>5$ push-ups.
* Cool down -5 ' jogging and walking, followed by 10 ' static stretching.

Total duration: 94

Wed. $1^{\text {st: }}$
Thu. 2 $2^{\text {nd. }}$ * Low Int.
Tr. 148

* Warm up
* Strength
* Speed End. - Field exercise, 8 laps in total from the start as follows:
- Sideways-R ( $\pm 15 \mathrm{~m}$ )
- Jog to next cone ( $\pm 40 \mathrm{~m}$ )
- Backwards jogging to the next cone ( $\pm 15 \mathrm{~m}$ )
- High speed run around the top cone and to the next cone ( $\pm 100 \mathrm{~m}$ )
- The running speed should be minimum $95 \% \mathrm{SP}_{\text {max }}$.
- Running backwards to the next cone ( $\pm 15 \mathrm{~m}$ )
- Jogging at medium intensity to the next cone ( $\pm 40 \mathrm{~m}$ )
- Sideways-L ( $\pm 15 \mathrm{~m}$ )
- Walk back to start ( $\pm 60 \mathrm{~m}$ )
- One full lap, arriving back at the start takes $\pm 90$ ".
- Therefore restart every 90 ".
- Set 1 (8 laps) takes $\pm 12^{\prime}$ to complete.
- 4' recovery

Set 2: Field exercise, again 8 laps of 90 " each.

- All together, this speed endurance exercise takes $\pm 28$ '
( 12 ' Set $1+4$ ' recovery +12 'Set 2 )

* SE for ARs - While the referees perform their 2 sets of the HI exercise, the next SE exercise can be considered for the assistant referees.


Total duration: ${ }^{13}$

[^2]
## REST DAY

| $\frac{\text { Sat. } 4^{\text {th. }}:}{\text { Tr. } 149}$* Warm up | $-20^{\prime}$ jogging, mobilisation and dynamic stretching. |
| :--- | :--- |
|  | *Speed |
|  | - Short sprints from a dynamic start: |
|  | $-2 \times 5 \mathrm{~m}, 2 \times 10 \mathrm{~m}, 2 \times 15 \mathrm{~m}, 2 \times 20 \mathrm{~m}$ and $2 \times 25 \mathrm{~m}$ |
|  | (with a change in direction to the left) |

- The second set of the 10 sprints is done in reversed order, i.e. $2 \times 25 \mathrm{~m}$ (with a change in direction to the right), $2 \times 20 \mathrm{~m}, 2 \times 15$ $\mathrm{m}, 2 \times 10 \mathrm{~m}$ and $2 \times 5 \mathrm{~m}$

- The total exercise time is $15^{\prime}$
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: ${ }^{\text {5 }}$
Sun. $5^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.

WEEK 10 from Monday $6^{\text {th }}$ to Sunday $11^{\text {th }}$ of March

## Macrocycle VII, week 4 (Training week 40)

| $\frac{\text { Mon. } 6^{\text {th }}:}{\text { Tr. } 150}$ | * Act. Rec. | - 50' recovery session in a fitness centre. |
| :---: | :---: | :---: |
| $\frac{\text { Tue. } 7^{\text {th. }}:}{\text { Tr. } 151}$ | * Low Int. | - 5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\text {max }}( \pm 1 \mathrm{~km}$ ). |
|  | * Warm up | - 20' jogging, mobilisation and dynamic stretching. |
|  | * Strength | - 15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 "-30" exercises) |
|  | * High Int. | - Set 1: <br> -30 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 150 \mathrm{~m})$, then 30 " recovery jogging <br> -60 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 300 \mathrm{~m}$ ), followed by 30 " jogging <br> $-90 "$ run at $90 \% \mathrm{HR}_{\max }( \pm 450 \mathrm{~m})$, followed by 30 " jogging <br> $-2^{\prime}$ run at $90 \% H R_{\text {max }}\left( \pm 600 \mathrm{~m}\right.$ ), followed by $1^{\prime}$ jogging <br> -90 " run at $90 \% \mathrm{HR}_{\max }( \pm 450 \mathrm{~m})$, followed by 30 " jogging <br> -60 " run at $90 \% \mathrm{HR}_{\text {max }}( \pm 300 \mathrm{~m}$ ), followed by 30 " jogging <br> -30 " run at $90 \% \mathrm{HR}_{\max }( \pm 150 \mathrm{~m})$, followed by 30 " jogging |
|  |  | -2' recovery |
|  |  | - Set 2: <br> - Repeat Set 1 |
|  |  | - This exercise takes $12^{\prime}+2^{\prime}$ recovery $+12^{\prime}=26$ and can also be done on a football field as indicated on p. 1 (Tr. 139). |
|  | * Cool down | -5 ' jogging and walking, followed by 10 ' static stretching. |

Total duration: 81'
Wed. $8^{\text {th }}$ :
Thu. $9^{\text {th }: ~ * L o w ~ I n t . ~} \quad-5^{\prime}$ jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$.
Tr. 152
*Warm up -20' jogging, mobilisation and dynamic stretching.

* Strength $\quad-15$ ' strength, core stability and injury prevention exercises.
(abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 " -30 " exercises).
* Speed End. - Set 1 :
- 4 laps of $\pm 3$ each.
- 4' recovery
W. Helsen T+3216329068 F +32 $16329197 \quad \mathbf{M}+32477425534 \quad \mathbf{E}$ werner.helsen@kuleuven.be p. 12

- Set 2
- 4 laps of $\pm 3$ ' each.
- This exercise takes $\pm 28^{\prime}$ (12' Set $1+4^{\prime}$ recovery $+12^{\prime}$ Set 2 ).
* Match - 10' match play.
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: 93

Fri. $10^{\text {th }}$ :
$\begin{array}{rll}\frac{\text { Sat. } 11^{\text {th }}:}{\text { Tr. } 153} & \text { * Warm up } & -20^{\prime} \text { jogging, mobilisation and dynamic stretching. } \\ & \text { * Speed/Agility } & \text { - Penalty area exercise, as per diagram below. }\end{array}$

- Set 1:

5 laps in the penalty area from start to finish as indicated.


- Set 2:
- Perform another 5 laps of the penalty area exercise.
- The total exercise time is $15^{\prime}$.
* Cool down -5 ' jogging and walking, followed by 10 ' static stretching.

Total duration: $50^{\prime}$
Sun. 12 ${ }^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.

WEEK 11 from Monday $13^{\text {th }}$ to Sunday $21^{\text {st }}$ of March

## Macrocycle VII, week 5 (Training week 41)

| $\frac{\text { Mon. } 13^{\text {th }}:}{\text { Tr. } 154}$ | * Act. Rec. | - 50' recovery session in a fitness centre. |
| :---: | :---: | :---: |
| Tue. $14^{\text {th }}$ : | * Low Int. | - 5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km}$ ). |
| Tr. 155 | * Warm up | $-20^{\prime}$ jogging, mobilisation and dynamic stretching. |
|  | * Strength | - 15' strength, core stability and injury prevention exercises. <br> (abdominals, back muscles, sideways, arms, legs, see Library TSL | for 2 sets of 30 "-30" exercises).

* Speed End. - The SE-exercise is organised in 6 stations of 3' each, 1:2 recovery
- 6 exercises of 3' each, 1:2 recovery
- Referees to work in groups of 3 (similar fitness levels).
- Referees 1 and 3 on the start cone and referee 2 on the finish cone (except for Ex. 1: all 3 at the start cone)
- Going in sequence this gives a work:rest ratio of 1:2
- 3' on each run with a 1-2' rest in between
- Each group starts at a different point and rotates accordingly
- Station 1 (15+15 m): 6-7" per run: 20" per group: x10 = 300 m (3'05")
- Station $2(25 \mathrm{~m}): 5-6 "$ per run: 18" per group: x12 = 300 m (3')
- Station 3 ( 75 m ): 13-14" per run: 40" per group: x4.5 = 337.5 m (3')
- Station $4(40 \mathrm{~m})$ : 7-8" per run: 24 " per group: x7.5 $=300 \mathrm{~m}$ (3'20")
- Station $5(15+15 \mathrm{~m})$ : 6-7" per run: 20" per group: x10 $=300 \mathrm{~m}\left(3^{\prime} 05^{\prime \prime}\right)$
- Station 6 ( 16.5 m ): 3-4" per run: 9" per group: x20 = 330 m (3'25")
- AR scan do the exercises 1 and 4 with flag


[^3]- All together, these 6 stations take $\pm 30^{\prime}$
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: $85^{\prime}$

Wed. $15^{\text {th }}:$
Thu. 16 ${ }^{\text {th }: ~ * ~ L o w ~ I n t . ~} \quad-5^{\prime}$ jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$.
Tr. 156

* Warm up -20' jogging, mobilisation and dynamic stretching.
* Strength -15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 " -30 " exercises).
* Rep. Spr. Ab. - Referees are organized in 4 stations
- They repeat 3 reps of 40 m and have 1 ' recovery between stations
- Between Set 1 and Set 2 , there is $3-4$ ' recovery
- The RSA distance $=(3 \times 40 \mathrm{~m}) \times 4$ stations $=480 \mathrm{~m}) \times 2$ sets $=960 \mathrm{~m}$
- All together, these 2 RSA sets take $\pm 26^{\prime}$ (14' Set $1+3$ ' recovery +14 ' Set 2 )

*Rep. Spr. Ab. - Assistant Referees are organized in 4 stations
- They repeat 3 reps of 40 m and have 1' recovery between stations
- Between Set 1 and Set 2, there is 3-4' recovery
- The RSA distance $=(3 \times 40 \mathrm{~m}) \times 4$ stations $=480 \mathrm{~m}) \times 2$ sets $=960 \mathrm{~m}$
- All together, these 2 RSA sets take $\pm 26$ '

$$
(14 \prime \text { Set } 1+3 \text { ' recovery }+14 \text { ' Set } 2)
$$

[^4]
## Performance Training in Football Refereeing

 Weekly Training Plan

Total duration: 91 '

Fri. $17^{\text {th }}:$
Sat. 18 ${ }^{\text {th }}$ : Warm up
Tr. 157

* Speed


## REST DAY

- 20' jogging, mobilisation and dynamic stretching.
- Variations on the centre circle sprint:
- Set 1: $5^{\prime}$ or 5 laps in total.
- 3' recovery
- Set 2: 5 ' or 5 laps in total.

- The total exercise time is $15^{\prime}$.
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: 51'
Sun. 19 ${ }^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.

Performance Training in Football Refereeing Weekly Training Plan

## WEEK 12 from Monday $20^{\text {th }}$ to Sunday $\mathbf{2 6}^{\text {th }}$ of March Macrocycle VII, week 6 (Training week 42)

Mon. 20 ${ }^{\text {th }}: ~ * ~ A c t . ~ R e c . ~-50 ' ~ r e c o v e r y ~ s e s s i o n ~ i n ~ a ~ f i t n e s s ~ c e n t r e . ~$

Tr. 158
Tue. $21^{\text {st. }}$.
Tr. 159

* Warm up
* Strength $\quad-15$ ' strength, core stability and injury prevention exercises.
(abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of $30^{\prime \prime}-30^{\prime \prime}$ exercises).
*Rep. Spr. Ab. - Same organisation as for Training session 139 \& 147
- Set 1 (using a dynamic start):
$>4$ sprints over $80 \mathrm{~m}\left( \pm 12^{\prime \prime}\right), 1: 5$ recovery
$>5$ ' in total
> 2' recovery
- Set 2 (using a dynamic start):
$>6$ sprints over $50 \mathrm{~m}( \pm 7.5$ "), 1:5 recovery
$>6$ ' in total
> 2' recovery
- Set 3 (using a dynamic start):
$>8$ sprints over $40 \mathrm{~m}( \pm 6 "), 1: 5$ recovery
$>4^{\prime} 40^{\prime \prime}$ in total
> 2' recovery
- Set 4 (using a dynamic start):
$>6$ sprints over $40 \mathrm{~m}( \pm 6$ "), 1:5 recovery
$>3^{\prime} 40^{\prime \prime}$ in total
$>2$ 2' recovery
- Set 5 (using a dynamic start):
$>6$ sprints over $30 \mathrm{~m}( \pm 4.5$ "), 1:5 recovery
$>4$ in total
$>2$ ' recovery
- All together, 30 sprints ( $90 \%$ to $100 \%$ SPmax) should be performed from a dynamic start position. Decelerate smoothly, turn and jog back to the start. The total duration of this RSA session is $\pm 32^{\prime} 20^{\prime \prime}$.
* Cool down $\quad-5$ ' jogging and walking, followed by 10 ' static stretching.

Total duration: 87

Thu. $23^{\text {rd. }}$ * Low Int.
Tr. 160
-5 ' jogging slowly building up to $70 \% \mathrm{HR}_{\max }( \pm 1 \mathrm{~km})$.

- 20' jogging, mobilisation and dynamic stretching.
- 15' strength, core stability and injury prevention exercises. (abdominals, back muscles, sideways, arms, legs, see Library TSL for 2 sets of 30 "-30" exercises).
* Speed End. - Set 1:
- Field exercise, 5 laps of $\pm 2^{\prime}$ each performing the different activities at the appropriate intensities. Where indicated, the running speed should be minimum $95 \% \mathrm{SP}_{\text {max }}$.
- 4' recovery
- Set 2:
- Field exercise, 5 laps of $\pm 2$ ' each.


| 2 sets of 5 laps |  |  |
| :---: | :---: | :---: |
| One lap |  | 2 min |
| Set 1 (5 laps) |  | 10 min |
| Recovery |  | 4 min |
| Set 2 (5 laps) |  | 10 min |
| Total duration |  | 24 min |
| Walking | W | 650 m |
| Jogging | J | 1400 m |
| Backwards | BW | 200 m |
| Sideways | SW | --- |
| Speed End. | SE | 1250 m |
| Sprint | S | 200 m |
| Total distance |  | 3700 m |

- All together this exercise takes 24 '
( 10 ' Set $1+4$ ' recovery $+10^{\prime}$ Set 2 )
* Match - 10' match play.
* Cool down -5 ' jogging and walking, followed by 10 ' static stretching.

Total duration: 89'
Fri. $24^{\text {th }}:$
REST DAY

| $\frac{\text { Sat. } 25^{\text {th. }}:}{\text { Tr. } 161}$ | *Warm up |
| ---: | :--- |
|  | * Speed |$\quad$| -20 ' jogging, mobilisation and dynamic stretching. 11 m sprint, 11 m jogging, walking to start, 4 x |
| :--- |
|  |



- Sprints should ideally start from a dynamic start position (walking, jogging, sideways or backwards...).
- 5 ' recovery, followed by a $2^{\text {nd }}$ Set of 7 sprints.
- The total exercise time is 15 ,
* Cool down -5' jogging and walking, followed by 10' static stretching.

Total duration: 50'
Sun. $26^{\text {th }}$ : If you don't have a match appointment for the domestic league, use your free time for additional recovery, or use your free time to work on any fitness weaknesses you might have, e.g., aerobic endurance, strength, injury prevention,...).

Alternatively, you may also consider other intermittent activities such as playing badminton, football, squash, tennis, or alpine/cross-country skiing to benefit from complementary mental and physical stimulation.


[^0]:    W. Helsen T + $3216329068 \quad$ F + $3216329197 \quad$ M + 32477425534 E werner.helsen@kuleuven.be p. 2

[^1]:    W. Helsen T +32 16329068 F +32 16329197 M +32 477425534 E werner.helsen@kuleuven.be p. 6

[^2]:    W. Helsen T +32 16329068 F +32 16329197 M +32 477425534 E werner.helsen@kuleuven.be p. 10

[^3]:    W. Helsen T +32 16329068 F +32 16329197 M +32 477425534 E werner.helsen@kuleuven.be p. 15

[^4]:    W. Helsen T +32 16329068 F +32 16329197 M +32 477425534 E werner.helsen@kuleuven.be p. 16

