

LISTEN ENGAGE REPRESENT

The Complexity of Transitioning From A Good Club Athlete To A GB Elite Performance Athlete.



Intro – Constantly Learning And Developing A Philosophy Of Coaching Practise :

National coach Bath university British Triathlon .

Belgium Triathlon federation consultant.

Slovakia ITU coaching development project.

Technical director triathlon Ireland .

Head of Endurance athletics Ireland.

Welsh Athletics national coach.





Fundamental messages

- Understanding your athletes history and journey
- Asses your athletes coachability Are they open to coaching advice?
- Be honest in your approach what is possible
- Establish the right understanding around training intensity The right Aerobic Balance
- Developing the right programme for the right athlete (Review, Refine, Optimise, Refine, Perform)



Coaching What Is In Front Of You Is Key!



Athlete History & Journey

- Consistency.
- Injuries
- Physical preparation history?
- Technical model how does your athlete move?
- Prolific trainer
- Race performances consistency/over raced?
- Competition programme.
- Emotional control in training
- Are the event specific requirements aligned to the training programme?





Athlete Profiling.

- Metabolic /Lab Based.
- Peak Vo2 Values.
- Vvo2 (velocity).
- Economy.(cost)
- RER (value.)
- Lactate threshold.
- Lactate turn point.



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6 Zone Training Model



Physiology Support Structure

1	Aerobic Profiling Standardised step-test in the lab or field to establish the lactate threshold, lactate turnpoint and training zones. Could include VO _{2max} testing
2	Training Session Monitoring Lactate monitoring of training sessions to ensure that the training goal is being met. Examples include control around Z2, Z4 and Z5 sessions
3	Aerobic-Anaerobic Balance A short step test in the field in order to establish the lactate turnpoint, followed by a maximum effort TT over 600m or 1km to look at anaerobic capacity
4	Performance Indicators Monitoring of standardised event-specific sessions in order to predict current racing form and establish the metabolic cost of running at qualifying time speeds
5	Maximal Sprint Speed Measurement of maximal sprinting velocity using timing gates. This could be used as a single test, or in combination of 1 to 4

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Example Support Timeline

	Maximal Sprint Speed
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5

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Event Specific Strength & Conditioning Programme

- Aim. Improve the following.
- **Technical** improve tendon health and ligament health
- **Structural** muscle mass, better movement and control.
- **Physiological** Improved efficiency and improved fatigue resistance
- Force Improved contact, stiffness, reactivity increasing your power per stride
- **Strength** underpins the above four pillars and ultimately drives performance







Specific Strength Development









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Developing A Training Programme



Clara Evans

From Ponty Roadents to representing GB at the World Half Marathon Championships!

2017	2018	2019	2020
5k 17-15	16-49	16-21	16-02.
10k 34-55	34-02	33-07	32-47
Half-M. 75-38	74-13	72-49	72-21
Marathon ???			



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Programme Design Philosophy.

- Aerobic capacity +technique.
- Aerobic capacity + power.
- Aerobic capacity + power + technique.
- Aerobic power.
- Event specific endurance.
- Event specific endurance & resistance + power.





Critical Areas of Programme Design

Preparatory Phase of Training

- Principle of loading
- 5 weeks training cycle
- Check set week 3&5
- High /High /Low/Very High /Low.
- Managing a 5 week cycle in the general phase of conditioning 4-5 x 5 week cycles October until March
- Less risk more control .
- Weeks 3-5 allow controlled check sets /comps.





Example of Training Load Preparatory Phase

Aims

improve aerobic capacity

Vo2 session

Hills strength

Initial phase no threshold work or middle ground work - ONLY for 5-10 weeks

Mon aerobic zone 1

 Tues Vv02 2x (4min-3min-2min) then 9x1mins work
 pm build run (safer at this stage 25-35mins)

 Wed aerobic recovery run.
 Image: stage 25-35mins (stage 25-35mins)

Thurs aerobic run + power strides

Friday long hills 3x (2min-2x1mins)

Saturday recovery

Sunday Long run

Pm build run 25-35mins

Pm + power strides



Example of Fundamental Conditioning Phase One

Aims

- Increase aerobic capacity + power .
- Strength 10k conditioning sessions .
- Controlled threshold development



Example Of Fundamental Conditioning Phase One

Mon - 50mins recovery pm power and strides 8x10s hills .

Tue - Fartlek 5min fast/5min easy/4/4/3/3/2/2/1/1/3/3/2/2/1/1 (Gym) pm 5mile build run.

Wed - 70mins pm 50mins .

Thurs - 50mins 8x100m strides. (Gym) pm rest.

- Fri 3mile Build / 1mile easy /3x1mile tempo (AT) rest 90s.
- Sat Rest.
- Sun Long Run 1hr-40mins
- Mon- 50mins recovery pm power strides or short hills.
- Tue Fartlek 5 x (2mins -3x1mins rest 60s) break 3mins easy. (gym)

Wed - 70mins pm 50mins .

- Thurs- 50mins 8x100m (Gym) pm rest
- Fri 2x(2mile 1mile 4x1min fast 1min easy) (AT) (10k) (3k) rest 2min/90s/1min/ 3mins pm Easy run.

Sat Rest.

Sunday Long Run 1hr-40mins .

pm 5 mile build run .

pm 5mile build run.



Example Of Event Specific Preparation Phase

Aims

- Continued aerobic development .
- Increased recovery around key session.
- Extension principle / further not faster when developing specific event speed endurance



Example Of Event Specific Preparation Phase

- Mon- am recovery run
- Tuesday am 4-5 x (1200m+300m) rest 60s /break 3mins , extension carefully managed pm recovery jog

pm run with event prep.

Pm rest.

- Wed am aerobic run pm aerobic run.
- Thurs am aerobic recovery +6x100m strides.
- Friday am 7miles 5-50/40/30/(6min) 5-25/20/15.
- Sat am- recovery or rest.
- Sunday Aerobic .+ 6x100m strides.
- Mon Aerobic.
- Tue 2k tempo / 400m easy / 2x300m/3x200m
- Wed aerobic run
- Thurs jog and strides.
- Fri <mark>rest</mark>
- Sat Race

pm easy run.

pm easy run.



Example of Specific Marathon Preparation

Intro:

- Athlete in very good 10k shape
- High Lactate turn point
- Strong aerobic endurance prior to starting marathon preparation phase
- Marathon preparation /subject to the athletes individual ability to be able to absorb a high training load and volume.
- Fuelling profile critical to any success at the marathon .





Example of Specific Marathon Preparation

Mon- am 50min recovery - pm 8x10s hills /25min easy.

- Tue am fartlek 10x2mins /10x1mins (10k pace)
- Wed- am 70mins pm 50mins
- Thurs am 50mins recovery +6x6sec strides.
- Fri am 5-6 x 4k (MP) 1K recovery
- Sat am recovery run.
- Sun -2hrs-15mins
- Mon- am 50mins recovery pm 8x10s hills /25min easy
- Tue am 10 x 3mins tempo rest 60s (10k pace)
- Wed 70min pm 50mins
- Thurs- rest pm 50mins
- Friday am 40min recovery +6x6s strides. Pm rest.
- Sat 8mile build /1mile easy/ 6mile MP/1mile build / 4mile above MP /1mile easy .
- Sun Recovery run.

pm build run 5-7miles.

pm build 5-7miles

pm recovery run..



Managing The Balance Of Aerobic Capacity Work V The Growth Of Anaerobic Interference.

- Event Aerobic Endurance Development
- 85% to 93% .
- 10x800mrest 2mins
- 8x1k rest 2mins.
- 6x1200m rest 2mins.
- 5-6 x 1mile rest 2mins.
- 3x(4x800m) rest 90-75-60-3mins.
- 3x(2k-1k) rest 90s /3mins
- 5x(1200m+300m) rest 45s/ 3mins.
- 4x(1600m+ 400m) rest 60s / 4mins.

- Event Specific Vv02 + Development.
- 97% to 110%
- 5x(3x400m) odd sets 40s rest/evens 60s / 3mins.
- 5x(2x600m) rest 75s /rest 3mins.
- 4-5x(800m-2x400m) rest 30s /3mins .
- 3x(1k 3mins/3x400m rest 60s) rest 3mins.
- 3x(6x400m) rest 45s/ rest 3mins.
- 3x(600-500-400-300-200) rest 2mins/5mins.
- 2x1k rest 3mins /2x9x200m rest 60/5mins /2x1k rest 3mins .



Developing The Right Aerobic Balance Are You Adding Or Taking Away !!!!!







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Performance Indicators

- Vv02 3k pace 100%.
- 5k pace 97%. (4x1200m) / (6x800m)
- 10k pace 93% (3-4 x 2k) / (8-10 x1km)
- ¹⁄₂ Marathon 88% (3x3k) / (3x5k)
- Marathon 85% (4-5 x 5k) / (25km)
- Weeks 3-5 check sets .





Understanding Good Process

Monitoring

Improved Capacity

High Fractional Utilization .

Healthy Profile .

Individual Design

Improved Specific Endurance

Aim Lower The Cost At Higher Aerobic Velocity's

Power & Technical Work A Priority At This Point In Preparation

Healthy Profile



Event Specific Extension Developed At The Right Intensity .

Optimisation

Event Speed Carefully Managed

Constantly Checking The Relationships Between The Aerobic And Anaerobic Balance



Summary

- Review your athlete and understand the limiting factors to performance
- Plan your aims.
- Design
- Execute
- Refine
- Evaluate evidence based.
- Refine (Again)
- Optimise.
- Perform







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Questions?

