



#### **Triathlon Performance Solutions Presents:**

The Twelve-Week Race Plan

Race distance: Olympic

Athlete level: Intermediate level with at least two years of Olympic distance racing experience

**Hours Per Week: Seven to eight** 

This training plan is to be used in conjunction with a Garmin multisport GPS device or devices. The plan is written so that each session is easy to understand and can be uploaded to your device via the Garmin Training Centre software so your device acts as your coach for each session, guiding you through every step.

The plan is intended to be used as a starting point and is meant to be flexible, so move sessions and days around to fit in with your lifestyle when you need to, but try to avoid cramming too many Hard sessions back to back. If you don't have enough time to complete a full session, just go out and do what you can. A 10-minute run is better than no run at all and it reminds the body what you are training for.

This plan assumes the athlete is starting from a good aerobic base of fitness and has at least two years of experience competing in Olympic distance triathlons. If you come from a single sports background, consider replacing one session in that sport with your weakest discipline once every 2–3 weeks.

Aim to be as consistent as possible. Consistency is the key to athletic improvement. Take the long view: you won't develop much in a week but you can progress a lot over 12 weeks.

Good luck and enjoy the journey.





#### **Technical Terms:**

Back: Backstroke swimming technique.

Breathing Pattern: The number of strokes you take between breaths. It's a good idea to have a regular breathing pattern as this will help you to find a rhythm and focus in open water especially.

Build: A repetition or session which increases in intensity and/or pace as you go through it.

Catch: After your hand has entered the water to begin your stroke you have the catch phase, where you need to grab as much water as possible with your palm and forearm so you can then pull your body over the water.

Dead Spot: When cycling you have two dead spots during the pedal stroke – one at the dead top and one at the dead bottom. Pedalling efficiently means you minimise the time spent in each dead spot.

Fartlek: A session where you mix your speed/intensity but never actually stop. Literally: to play with speed.

Free: Freestyle. Also known as Front Crawl swimming style.

OWS: Open Water Swimming, or swimming in the outdoors in a lake, river, the sea etc. Many races in the UK are open water but there are also a lot of pool-based triathlons, especially early and late season. If you're doing an open water race make sure you practise a few times before your event.

Recovery: Time within a session where you are static or moving very slowly to allow the body to recover before the next bout of exercise.

Reps: Repetition: repeated time or distance exercises within a training session.

RPM: Revolutions Per Minute. The number of full revolutions one leg makes in a minute of cycling or the number of contacts with the ground one foot makes in a minute of running. Also described as Cadence.

Tech: Technique session: a session where you are focusing on improvements to technique over speed or intensity.

Turbo: A piece of bike training equipment that locks your bike into a stationary position and applies resistance so you can cycle indoors. Usually a triangular frame.

TT: Time Trial: an effort against the clock where you are aiming to go as far or as fast as possible against a set time or distance target.





### **Intensity Guideline**

#### Easy or Zone 1:

Basic aerobic endurance training, 50-60% of your maximum heart rate. This zone is the basis of all endurance training and is vital to your ability to support training in the upper zones.

#### Steady or Zone 2:

Using the mid to upper levels of the Aerobic system at 60-70% of your maximum heart rate. You should still be able to talk to someone while training at this intensity, and it is at or just below race pace for many athletes.

#### Tempo or Zone 3:

This intensity is used mainly in repetitions and progressive sessions and is 70-80% of your maximum heart rate. This intensity corresponds to race pace/intensity for a well-trained athlete. Conversation in this zone is difficult and generally brief.

#### Hard or Zone 4:

This zone is 80-90% of your maximum heart rate. Training in this zone increases your ability to process oxygen and lactic acid and pushes your maximal aerobic capacities higher but this can only be sustained if you have a good base in the lower intensities.

#### Max or Zone 5:

Close to maximum pace and can only be maintained for short periods of time (1–8 minutes). This intensity corresponds to 90-100% of your maximum heart rate and is used sparingly in training compared to the other zones, but it can have big benefits to production of power/force and maximum oxygen uptake.





**Phase One – Establishing Base Fitness** – This phase is to establish your Base level endurance. This is a key stage that allows you to support the latter, higher intensity phases. This plan assumes that you already have a good level of Base endurance so this phase is relatively short.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
One	Set 1: 40min Z1 Do 5-10 min of light mobility work before commencing your run. Aim to hold a consistent HR and pace so don't go out too hard. You should finish feeling good. 5min stretching to finish.	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 6x200m swim or pull Z2 + 20sec. Set 4: 200m Z1 swim. Don't worry about	Set 3: 55min Z1 Spinning at 90–95 RPM. Set 4: 5min Very Easy Can do this on road or	50m drill, 75m swim) All Z1+20sec.	work on your weakest discipline: Easy Run 40 or Easy Bike 70 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some	Bike to Run brick: Easy Bike 70: Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Set 3: 55min Z1 Set 4: 5min Very Easy Straight off the bike and into: Easy Run 30: Set 1: 30min Z1. Keep RPM up when running off bike. Aim for around 93-95 RPM. Remember to Hydrate during the session.	Moveable Day off: Take the day off to recover from your week. Ideally on this day but it can be moved if it works better to fit into your week. Do some light stretching or get a massage if you can.
Two	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 6x200m swim or pull Z2 + 20sec. Set 4: 200m Z1 swim Count your strokes on every 3rd 50m of your 200's and aim to swim the same speed as last	Set 1: 60min running in Z1. Keep intensity even throughout the session. This will help to build your base endurance	here but you can move this day off to another day in the week if it fits your schedule better.	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 4x50m + 15sec building each 50m Z1-Z2-Z3-Z4. Set 3: 50m Z1 Recovery.	Before the run do 10– 15min of core strength exercises. Build your pace throughout the session and maintain your form. Finish with 10min of stretching		Set 3: 8min Z2 @ 75 RPM Set 4: 2min Z1 @ 85 RPM Finish with: Set 5: 5min L1 Easy spinning. Do this session on the Turbo or a set of





**Phase Two – Progressing Specific Endurance –** This phase builds on your Base phase and introduces more race – specific sessions where you are working at or above race intensity.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Three	Tempo Swim 2.2: Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 5x300m Z3 swim	Tech Run 36: Set 1: 10min Z1 Repeat the following 6x: Set 2: 2min Z3 Set 3: 1min Z1 Finish with: Set 4: 8min Z1 Work on your	Test Bike 60: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM	Tech Swim 1.2: Set 1: 300m Z1 swim mix of free and back. Set 2: 5x(25m kick, 50m drill, 75m swim) All Z1+20sec. Set 3: 150m Pull or Swim Z1. Work on your recovery	Moveable Day off: Take the day off to recover. Ideally on this day but it can be moved if it works better to fit into your week. Do some light stretching or get a	Build Run 50: Set 1: 20min Z1 Set 2: 15min Z2 Set 3: 10min Z3, Set 4: 5min Z1 Aiming to maintain the same pace as the build run the week before but for slightly longer.	Long Bike 150: Repeat the following 2x: Set 1: 55min Z1 Set 2: 20min Z2 Long Easy to Steady
	Set 5: 200m Z1 swim Free and Back Aim for your target race speed on the	pace variation. Maintain a high RPM, stand tall and pick your knees up whether you are	HR Set 5: 10min Z1	stroke.			and being efficient. Remember to eat and drink during the ride and ride with a group of friends if you can.





Four	Set 1: 200m Z1 Free and Back Mix Set 2: 5x200m Z1 Pull + 20sec working on an early catch Set 3: 200m Z1 mix of free and Kick Use this session to loosen the legs from the past couple of days. Relax in the water and work on your technique	Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Repeat the following 5x: Set 5: 5min L4 @ 95	Option Session: Work on your weakest discipline: Easy Run 40 or Easy Bike 70 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your weakest sport.	Set 1: 5min Z1 Set 2: 3min Z2 Set 3: 2min Z3 Set 4: 5min Z1 Set 5: 3km TT Best effort. Record Time and HR Set 5: 10min Z1 Run on a flat surface.Try to use the	Set 1: 3x100m Z1 + 10sec. Mix of kick, pull and swim Set 2: 15x100m Z2 + 10sec. Do the first 5 pull and the last 10 swim Set 3: 300m Z1 mix free and back Work on your stroke during the pull and then maintain form when you introduce	Tempo Bike 70: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 40min Z3 @ 95 RPM Set 6: 10min Z1 Run off bike Tempo Run 30: Set 1: 20min Z3 Set 2 10min Z1	Moveable Day off: Ideally take the day off here but you can move this day off to another day in the week if it fits your schedule better but try not to do back to back hard sessions if you can avoid it. Work on your nutrition, especially your recovery after a hard or long session where you need to take in both carbs and protein within 30min of finishing.
Five	Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 6x300m Z3 swim	After 5–10 min of light mobility work run in Z1 Heart Rate for 40 min. Aim to hold a consistent HR and pace so don't go out too hard. You should finish feeling good. 5min stretching to finish.	10sec. Mix of kick, pull and swim Set 2: 6x300m Z2 + 30sec. Do the first 2 pull and the last 2	How comfortable are you on the bike? Many people spend thousands on buying a bike but then never get it fitted properly. For £100-£200 it's a worthwhile investment. Not only will it help you to be more comfortable and efficient on the bike, it will also help your running because you won't get off the bike as fatigued	Set 1: 5min Z1 Set 2: 5min Z2 Set 3: 5min Z3 Set 4: 2min Recovery Repeat the following 3x: Set 5: 6min Z4 Set 6: 2min Recovery Then finish with: Set 7: 9min Z1	Repeat the following 3x: Set 1: 30min Z1 @ 90 RPM Set 2: 20min Z2 @ 75 RPM Long Ride over hilly terrain. Pedal smoothly over hills. Remember to hydrate and fuel during the ride.	breathing bilaterally if





Six	Day Off: Recovery Week. Massage or light stretching session - focus on the big muscles: Glutes, Quads, and Hamstrings.	Set 1: 300m Z1 swim mix of free and back. Set 2: 5x(25m kick, 50m drill, 75m swim) All Z1+20sec. Set 3: 150m Pull or Swim Z1. See if you can get a swim coach to have a look at your stroke and	mobility work before commencing your run. Keep working on your technique, even when running slowly. Don't get sloppy. Pick up knees, stand tall and	Day Off: Enjoy a bit of a sleep in and do some light stretching or Yoga in the evening	Option Session: Work on your weakest discipline: Easy Run 40 or Easy Bike 70 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your weakest sport.	Bike to Run Brick Tempo Bike 80: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 50min Z3 @ 95 RPM Set 6: 10min Z1 Run off bike Tempo Run 30: Set 1: 20min Z3 Set 2 10min Z1 Work on form during your run.	Long Run 80: Set 1: 80min running in Z1. Keep intensity even throughout the session. This will help to build your base endurance which will support your higher intensity work later on. Keep RPM high throughout and stand tall with good technique. 5-10min of light stretching to finish.  Congratulations! You're half way through your preparation. Aim to continue being consistent with your training.
Seven	Easy Swim 2.4: Set 1: 200m Z1 Free and Back Mix Set 2: 10x200m Z1 Pull + 20sec working on an early catch Set 3: 200m Z1 mix of free and Kick Use this session to loosen the legs from the past couple of days. Relax in the water and work on your technique	Set 1: 5min Z1 Set 2: 4min Z2 Set 3: 3min Z3 Set 4: 2min Recovery Repeat the following 6x: Set 5: 2min Z3 Set 6: 1min Z1 Set 7: 1min Z4 Set 8: 1min Z1	RPM Set 2: 5min Z1 @ 80 RPM. Set 3: 55min Z1 Spinning at 90–95 RPM. Set 4: 5min Very Easy Can do this on road or turbo. Focus on	Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 6x300m Z3 swim + 30sec	RPM Set 2: 20min Z2 @ 75 RPM Stay in the seat over	Set 1: 80min running in Z1. Slight increase in the length of your long run. Keep working on your technique. Take a couple of gels with you and take one at 20min	recover from your week. Ideally on this day but it can be moved if it works better to fit into your





Eight	Set 1: 200m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 2x1000m swim Z2 + 50sec. Set 4: 200m Z1 swim. Slightly longer reps to improve endurance. Keep counting strokes every 3rd 50m to check	Repeat the following 4x: Set 2: 3min Z1 single leg @ 90 RPM swapping legs every 30sec Set 3: 10min Z2 @ 75 RPM Set 4: 2min Z1 @ 85 RPM Finish with:	compare. You should see an increase in distance run for the same effort.	Ideally take the day off here but you can move this day off to another day in the week if it fits your schedule better. Have you thought about what equipment you are going to use in your race? Now is a good time to start getting organised so you can practise using it in training.	RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1	Set 1: 5min Z1 Set 2: 1800m Z2 Finish with: Set 4: 10min Z1 kicking and swimming. Use the goggles and wetsuit that you intend	intensity for longer. Keep RPM high throughout and stand tall with good technique. 5–10min of light stretching to
Nine	This week is a recovery and testing week so take it easy and enjoy some easier session.	Do 5-10 min of light mobility work before	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 4x50m + 15sec building each 50m Z1-Z2-Z3-Z4. Set 3: 50m Z1 Recovery. Set 4: 400m TT aiming for your best time. Compare with the test in week 2. Control your intensity to start	Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Repeat the following 8x: Set 3: 15sec Z5 Spinning at 100-105 RPM. Set 4: 4min 45sec Z1 @ 90 RPM Finish with: Set 4: 10min Z1 The sprints will help to wake your legs up.	10sec. Mix of kick, pull and swim Set 2: 800m Z2 swim + 60sec. Set 3: 600m Z3 swim + 40sec Set 4: 400m Z4 Set 5: 300m Z1 mix free and back Hold your technique together as you increase your speed.	discipline: Easy Run 40 or Easy Bike 70 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your weakest sport.	Test Bike 60: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 16km TT best effort. Record Time and HR Set 5: 10min Z1 Use the same location as your test in week 3.





**Phase Three** – **Race Specific** – Now you have done the bulk of the hard work and the sessions now become shorter but often with higher intensity. This is the time to practice pushing yourself hard like you will in you race and understand how to pace yourself properly.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Ten	Tech Swim 1.2: Set 1: 300m Z1 swim mix of free and back. Set 2: 5x(25m kick, 50m drill, 75m swim) All Z1+20sec. Set 3: 150m Pull or Swim Z1. Work on your recovery and catch at front of stroke.	Easy Bike 60: Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Repeat the following 8x: Set 3: 15sec Z5 Spinning at 100-105 RPM. Set 4: 4min 45sec Z1 @ 90 RPM Finish with:	Test Run 40: Set 1: 5min Z1 Set 2: 3min Z2 Set 3: 2min Z3 Set 4: 5min Z1 Set 5: 3km TT Best effort. Record Time and HR Set 5: 10min Z1 Use the same location as your run test in week 4. Don't go out too hard, pace your	Day Off: Enjoy a bit of a sleep in and do some light stretching or Yoga in the evening. Book your bike in to be serviced now so it's not a last minute rush before you race.	Tempo Swim 2.2: Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 1500m Z3 swim + 30sec Set 5: 200m Z1 swim Free and Back Use the 1500m rep to	Race Simulation Brick Tempo Bike 70: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 30km Z3 @ 95 RPM Run off bike Tempo Run 45:	Option Session: If you are still feeling tired take another day off here, otherwise work on your weakest discipline: Easy Run 40 or Easy Bike 70 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your
		Set 4: 10min Z1 Can do this on road or	effort. Run in the same shoes as you'll race in		practice your pacing for your race. Visualise	Set 1: 7km Z3 Set 2 10min Z1	weakest sport.
			shoes as you'll race in and don't wear socks if		for your race. Visualise yourself swimming in		weakest sport.
		up.				race. Use race kit.	





Eleven	Fartlek Run 50:	Easy Swim 2:	Option Session:	Hard Bike 55:	Tempo Swim 2.2:	Short Brick	Day off:
	Set 1: 5min Z1	Set 1: 200m Z1 Free	Work on your weakest	Set 1: 5min Z1 @ 85	Set 1: 200m Z1 swim	Tempo Bike 50:	Congratulations - All
	Set 2: 4min Z2	and Back Mix	discipline:	RPM	Free and Back	Set 1: 5min Z1 @ 85	the hard work is done
	Set 3: 3min Z3	Set 2: 4x400m Z1 Pull	Easy Run 40 or Easy	Set 2: 5min Z2 @ 90	Set 2: 2x50m Z1 Drill +	RPM	now. Start to do some
	Set 4: 2min Recovery	+ 20sec working on an	Bike 70 or Steady	RPM	10sec	Set 2: 5min Z2 @ 90	visualisation of your
	Repeat the following	early catch	Swim 1.8.	Set 3: 5min Z3 @ 95	Set 3: 4x50m + 15sec	RPM	race to mentally
	6x:	Set 3: 200m Z1 mix of	Work on Technique.	RPM	building each 50m Z1-	Set 3: 5min Z3 @ 95	prepare.
	Set 5: 2min Z3	free and Kick	Don't worry about	Set 4: 5min Z1	Z2-Z3-Z4.	RPM	
	Set 6: 1min Z1	Longer reps to prepare	speed, just get some	Repeat 4x:	Set 4: 1500m Z3 swim	Set 4: 5min Z1	
	Set 7: 1min Z4	for your race. If you're	extra miles in on your	Set 5: 3min L4 @ 95	+ 30sec	Set 5: 30min Z3 @ 95	
	Set 8: 1min Z1	going to be racing in a	weakest sport.	RPM	Set 5: 200m Z1 swim	RPM	
	Then finish with:	wetsuit, use it for part		Set 6: 2min L1 @ 85	Free and Back	Run off bike	
	Set 7: 6min Z1	or all of this session.		RPM	Use the 1500m rep to	Tempo Run 30:	
	Don't force the speed.			Set 7: 30sec L5 @ 100	practice your pacing	Repeat the following	
	Focus on your			RPM	for your race. Visualise	2x:	
	technique and it will			Set 8: 2min L1 @ 85	yourself swimming in	Set 1: 10min Z3	
	come naturally			RPM	the event.	Set 2: 5min Z1	
				Finish with:		Practice pacing and use	
				Set 7: 5min Z1 @		race equipment	
				90RPM			





Twelve	Max Swim 1.2:	Day off:	Hard Bike 30:	Day off:	Pick up Run 20:	Easy Swim .8:	Race!
	Set 1: 200m Z1 swim	Get a massage here,	Set 1: 3min Z1 @ 85	Start organising all	Set 1: 5min Z1	Set 1: 200m Z1 +	Get there with plenty of
	with a little bit of	but only if you have	RPM	your race kit and put it	Repeat the following	20sec	time to spare so you're
	backstroke.	been getting them	Set 2: 3min Z2 @ 90	in one place or in the		Set 2: 200m Z2 +	not rushed and
	Set 2: 2x50m kick Z1 +			bag you will take to the	Set 2: 30sec Z4	20sec	stressed. Use your
	10sec.	some light stretching.	Set 3: 5min Z3 @ 95	race. Take spares of	Set 3: 1.5min Z2	Set 3: 200m Z3 +	Garmin as a guide
	Set 3: 4x50m as 25m	Write out a timeline	RPM	essential kit like	Finish with:	20sec	through the event but
	Z5, 25m Z1 + 30sec	from the evening	Set 4: 3min Z1	goggles, shoe laces,	Set 4: 5min Z1	Set 4: 4x25m Z4 +	race on feel as well as
	Set 4: 100m Z1 swim	before the race up to	Repeat 2x:	inner tubes and a tyre.	Run on a soft surface	20sec	what it is telling you.
	and kick	race start so you are	Set 5: 2min L4 @ 95		in your race shoes if	Set 5: 100m Z1 Free	HR can often be higher
	Set 5: 400m Z3 swim	clear about what you	RPM		you can. Don't force	and Back	than normal due to
			Set 6: 1min L1 @ 85		the pace during your	Easy bike 20:	adrenaline. Aim to even
		you need to be. Refer	RPM		30sec pick ups. You	Set 1: 20min Z2 @	or negative split
		to the race website or			should be starting to		through each leg, just
		info you have received.	RPM		feel pretty good so let		like you have practiced
			Set 8: 2min L1 @ 85		the speed come	check gears and brakes	
			RPM		naturally.		enjoy yourself!
			Finish with:			Do both sessions in the	
			Set 7: 5min Z1 @			am and relax in the	
			90RPM			pm.	





Ben Bright is the Great Britain Men's Olympic Triathlon coach for the 2012 Games. He is also a former Olympic triathlete (Sydney 2000) who has coached World Champion and Olympic triathletes. His business, Triathlon Performance Solutions, provides coaching and training camps for age group athletes who are serious about maximising their potential.

More information on Ben and Triathlon Performance Solutions at

www.triath lonper formance solutions.com