



# The Complete Guide to Triathlon

For Getting Started and Progressing in the Triple  
Effort

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# Summary

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# Introduction: Your Passport to the World of Triathlon

Welcome to the fascinating world of **triathlon**, a discipline where perseverance, strategy, and versatility meet. More than just a sport, it's a true philosophy of life that invites self-overcoming, the discovery of one's limits, and personal growth. Whether you are a seasoned athlete seeking new challenges or a newcomer intrigued by the idea of swimming, cycling, and running, this guide is designed for you.

Triathlon, with its three iconic disciplines – swimming 🏊 , cycling 🚴 , and running 🏃 – offers a unique path to physical and mental improvement. It's not just about speed or power, but about the ability to chain efforts, manage energy, and adapt to conditions.

"The only person you are destined to become is the person you decide to be."

– Ralph Waldo Emerson

This white paper, the result of the expertise of AthleteSide, aims to demystify the triple effort. We will guide you through every aspect of this discipline, from understanding the different race formats to specific training strategies for each event, as well as the crucial importance of nutrition, hydration, and recovery.

Whether you dream of crossing the finish line of your first Sprint, embarking on an Ironman 70.3, or simply integrating this versatility into your sporting routine, this comprehensive guide will provide you with the knowledge and tools necessary to turn your aspirations into reality.

Get ready to dive, pedal, and run towards a new dimension of your potential. The adventure starts here!

# Part 1: Introduction to the World of Triathlon

## 1.1 What is Triathlon?

Triathlon is not just a sport, it's an adventure. A discipline that challenges physical and mental limits, where the athlete seamlessly transitions through **three distinct events: swimming, cycling, and running**. It's not a competition where one is good in one area and average in the others; triathlon demands mastery and endurance in each of the three realms, along with a unique ability to transition smoothly from one to another.

Imagine the excitement of the swim start, often in open water, where hundreds of athletes plunge together into an aquatic ballet. Then, the explosiveness needed to hop on your bike after the swimming effort, powering through the kilometers with your legs. Finally, the ultimate challenge: running, where each stride must adapt to the accumulated fatigue, all the way to crossing the finish line, symbolizing total achievement.

It is this unique combination that enriches triathlon. It's not just about being a good swimmer, a good cyclist, or a good runner; you must be a **triathlete**, capable of merging these three disciplines into one cohesive and demanding effort. The distance can vary greatly, from the "Discovery" format accessible to all, to the grueling "Ironman" where athletes push their bodies and minds to the limit. Regardless of the distance, the principle remains the same: the completion of the three events without pause, with the transitions between each discipline often rightfully referred to as the "fourth discipline."

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## A Brief Look at History: From Hawaiian Beaches to the Global Stage

While the idea of combining multiple sports disciplines existed before, modern triathlon as we know it took root under the sun of **San Diego, California, in 1974**. A group of friends from the San Diego Track Club, passionate about endurance, was seeking a new challenge. They organized a race combining a 10 km swim, an 8 km bike, and a 10 km run around Mission Bay. The idea was simple: to combine the most popular events in the area. This was the "Mission Bay Triathlon", the founding act of a sporting revolution.

However, it was in **Hawaii, in 1978**, that triathlon gained its nobility and legend. At the awards ceremony for the Oahu running race, a heated debate took place to determine which athletes were the most enduring: swimmers, cyclists, or runners. To settle the matter, US Navy Commander John Collins proposed combining the three toughest endurance races on the island: the Waikiki Roughwater Swim (3.8 km), the Around-Oahu Bike Race (180 km), and the Honolulu Marathon (42.195 km). Whoever finished all three would be an "Iron Man." Thus, the Ironman of Hawaii was born, the mythical event that would catapult triathlon onto the international stage, defining the iconic distances (3.8 km swimming, 180 km cycling, 42.195 km running) that still inspire dreams today.

Since then, triathlon has experienced exponential growth. In the 1980s and 1990s, it became structured with the creation of international federations (ITU, now World Triathlon), national federations (like **British Triathlon** in the UK), and the establishment of universal rules. Iconic figures like **Mark Allen**, **Dave Scott** (the legendary "Iron War" of Hawaii), and more recently athletes like **Jan Frodeno**, **Daniela Ryf**, or the Brownlee brothers have helped popularize and professionalize the sport. The pinnacle was the inclusion of triathlon in the **2000 Sydney Olympic Games**, an ultimate recognition that solidified its place among major sports.

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## Why Does Triathlon Attract? The Values of the Triple Challenge

Triathlon captivates far beyond its physical demands. It is a discipline that embodies deep values, resonating with the human spirit of self-overcoming.

- **Self-Overcoming** : This is undoubtedly the primary motivation. Every training session, every race, is an opportunity to push one's limits, to discover an unsuspected inner strength. Completing a triathlon, regardless of the distance, is a tremendous personal victory, a testament to resilience.

- **Versatility** : Unlike specialized sports, triathlon demands constant adaptability. One transitions from the aquatic environment to the asphalt of the road, from the fluid movements of swimming to the power of pedaling, then to the rhythm of running. This variety makes training less monotonous and stimulates different physical qualities.
- **Discipline and Rigor** : Preparing for a triathlon requires impeccable organization. One must juggle swimming, cycling, and running sessions, manage nutrition, sleep, and recovery. This discipline often translates positively into other aspects of life.
- **Mental Resilience** : More than just a physical sport, triathlon is a mental battle. Fatigue, doubts, and unforeseen challenges are an integral part of the experience. Learning to manage these tough moments, to persevere when the body screams "stop", forges a steely mindset.
- **Time and Effort Management** : Knowing how to pace your energy across three disciplines over hours of effort is an art. The triathlete learns to listen to their body, to adapt their strategy based on conditions, a valuable skill for everyday life.
- **The Community and Spirit of Support** : Although triathlon is an individual competitive sport, training often happens in groups. Support, experience sharing, and mutual encouragement create a strong and caring community. Respect for opponents and sportsmanship are fundamental pillars.
- **Health and Overall Well-being** : Engaging in triathlon is to adopt a healthy lifestyle. This includes better nutrition, regular physical activity, and increased attention to recovery. The benefits for physical and mental health are substantial.

Ultimately, triathlon is not just a simple succession of events. It is a quest, a lifestyle, a philosophy that drives each individual to surpass themselves, to discover their own capabilities, and to embrace a spirit of perseverance. This is what makes it so fascinating and attractive to thousands of enthusiasts around the world, from beginners to seasoned champions.

## 1.2 The Different Formats of Triathlon

Triathlon is a multifaceted sport, and its formats are the perfect illustration of this. Far from being a rigid discipline, it adapts to all levels, from the complete novice to the seasoned professional. Each format presents a unique challenge, a specific distance for each discipline, and appeals to a different audience. Understanding these formats is essential for choosing the adventure that suits you best.

Here is a detailed overview of the main formats, from the shortest to the most demanding:

### 🏊 The Discovery Format (XS)

This format is the ideal entry point into the world of multi-sport. Designed for beginners, it offers short and accessible distances, allowing newcomers to try triathlon without the pressure of a long effort.

- **Typical Distances:**
  - Swimming: 200 to 400 meters
  - Cycling: 5 to 10 kilometers
  - Running: 1 to 2.5 kilometers
- **Target Audience:** Perfect for a first experience, for those who want to get started, or for young athletes. The focus is on participation and discovering the transitions.
- **Objectives:** Finish the race, get accustomed to the transitions, and above all, have fun!

### 🏃 Sprint Format (S)

The Sprint format is a great step forward after a first experience or for those who already have a solid fitness base. It remains dynamic and fast, but requires more specific preparation.

- **Typical Distances:**
  - Swimming: 750 meters
  - Cycling: 20 kilometers
  - Running: 5 kilometers
- **Target Audience:** Athletes looking to improve their speed and technique, or those with prior sporting experience seeking a challenging yet manageable challenge.
- **Objectives:** Manage intensity across the three disciplines, optimize transitions, and aim to improve

personal best times. This is the most popular format in clubs.

## Olympic Format (M)

As the name suggests, this is the format contested at the Olympic Games. It is a benchmark event that demands significant endurance and sharp race strategy.

- **Typical Distances:**
  - Swimming: 1.5 kilometers
  - Cycling: 40 kilometers
  - Running: 10 kilometers
- **Target Audience:** Intermediate to advanced triathletes looking for a more substantial endurance challenge. Proper preparation is essential to perform well at this distance.
- **Goals:** Maintain a steady pace over time, manage intense and tactical efforts, and aim for high-level performance for the more seasoned athletes.

## The Long-Distance (L) Format or Half-Ironman / 70.3

These formats mark the transition to ultra-endurance. The term "70.3" refers to the total distance in miles ( $1.2 + 56 + 13.1 = 70.3$  miles) and is a registered trademark of Ironman, which organizes the majority of races at this distance. It's a significant challenge that requires months of rigorous preparation.

- **Typical Distances:**
  - Swimming: 1.9 kilometers (1.2 miles)
  - Cycling: 90 kilometers (56 miles)
  - Running: 21.1 kilometers (13.1 miles - a half marathon)
- **Target audience:** Experienced triathletes seeking endurance challenges, ready to fully commit to long-term training.
- **Goals:** Develop unwavering endurance, optimize nutrition and hydration during the race, and manage fatigue over extended periods.

## The Ironman Format (XL)

The holy grail for many triathletes, the Ironman is the legendary distance that forged the sport's legacy in Hawaii. It is the ultimate endurance challenge, a true test of character and willpower.

- **Typical Distances:**
  - Swimming: 3.8 kilometers (2.4 miles)
  - Cycling: 180 kilometers (112 miles)
  - Running: 42.195 kilometers (26.2 miles - a full marathon)
- **Target audience:** Highly experienced and mentally and physically prepared triathletes, ready to dedicate a whole year, or more, to their training.
- **Objectives:** Complete the distance within the allotted time, push physical and mental limits to the extreme, and experience a transformative journey.

## Other Triathlon Formats and Related Disciplines

The world of the triple effort is not limited to traditional road formats. Various variants and satellite disciplines exist, offering even more variety and challenges:

- **Cross Triathlon (Xterra):** Open water swimming followed by a mountain bike course and a trail run. Less asphalt, more mud, and technical terrain!
- **Winter Triathlon:** A combination of cross-country skiing, mountain biking (often on snow), and running (sometimes on snowshoes). A challenge for cold weather enthusiasts.
- **Relay Triathlon:** Each team member takes on one discipline. Ideal for sharing the experience, discovering triathlon as a team, or for specializing.
- **Duathlon:** A sequence of running, cycling, followed by running again. No swimming, perfect for those who have water apprehension or are looking for a different challenge.

- **Aquathlon:** A combination of swimming and running. Often used as training or as a first approach to multisport without the complexity of cycling.

## Help Choosing the Ideal Format to Start

With such diversity, how do you choose the format that suits you best for your start?

1. **Assess your current fitness level:** Are you comfortable in all three disciplines individually? If not, start by strengthening your weaknesses.
2. **Set a realistic goal:** A XS or Sprint is a great first step. Don't aim for an Ironman if you've never done a triathlon! Progression is key.
3. **Consider your schedule:** Preparing for a triathlon takes time. A shorter format will be less time-consuming than an L or XL.
4. **Consider your apprehensions:** If open water swimming is a barrier, a Duathlon may be an alternative to start with.
5. **Research local races:** The availability of events may influence your choice.

The key is to choose a challenge that is **stimulating yet achievable**, ensuring a positive and lasting experience in the exciting world of triathlon. The adventure is just beginning!

## 1.3 The Benefits of Triathlon

Engaging in triathlon is much more than training for a race; it's adopting a lifestyle that transforms the body and mind. The benefits of this sport are as varied as the disciplines it combines, affecting both your physical health, mental well-being, and even your social life. Far from being reserved for an elite, the triple effort offers real advantages to anyone who dares to take on the challenge.

### Physical Benefits: A Stronger, Healthier Body

Triathlon is one of the most complete sports there is. By engaging the entire body through three distinct disciplines, it offers a holistic training that strengthens your body in multiple ways:

- **Cardiovascular and Respiratory Improvement :** Swimming, cycling, and running are the ultimate endurance activities. They train the heart and lungs to function more efficiently, increasing your aerobic capacity. This translates to better blood circulation, regulated blood pressure, and a reduced risk of cardiovascular diseases. Your overall endurance improves, and you tire less quickly in everyday life.
- **Balanced Muscle Strengthening :** Unlike a unilateral sport, triathlon engages a wide variety of muscle groups. Swimming develops the upper body (shoulders, back, arms) and the core. Cycling primarily targets the legs (quadriceps, hamstrings, glutes) and the core for stability. Running also works the legs, but in a different way, focusing on cushioning and propulsion. This complementarity helps prevent muscle imbalances and injuries that can result from overly specific training.
- **Weight Management and Body Composition :** Triathlon is a fantastic calorie burner. Regular and sustained training across all three disciplines helps reduce body fat and build lean muscle mass. It's an excellent way to maintain a healthy race weight and improve your body composition.
- **Increased Endurance and Stamina :** Beyond racing, the ability to sustain prolonged effort becomes second nature. Your body learns to use energy more efficiently, and your resistance to fatigue significantly increases.
- **Injury Prevention :** Paradoxically, although training volume is important, the variety of disciplines can help prevent overuse injuries often encountered in high-impact sports (like running alone). By alternating swimming (low-impact), cycling (no impact), and running (moderate impact), you distribute the load across different body structures.

### Mental Benefits: A Steel Mind

The benefits of triathlon are not limited to the physical; they forge an unshakable mind and significantly contribute to your psychological well-being:

- **Resilience and Self-Overcoming :** Every tough training session, every mile run in the rain, every

moment of doubt during the race is an opportunity to strengthen your determination. Triathlon pushes you to push your limits, overcome discomfort, and discover a mental strength you didn't know you had. It's a school of perseverance.

- **Discipline and Organization :** Preparing for a triathlon requires rigorous planning. Managing three different training sessions while juggling work, family, and leisure develops organizational and time management skills that are valuable in all aspects of life.
- **Stress Management and Mood Improvement :** Physical exercise is a powerful natural stress reliever. The endorphins released during exertion provide a sense of well-being. Moreover, the concentration required during training and racing helps clear the mind of daily worries, offering a true escape and reducing anxiety.
- **Self-Confidence and Self-Esteem :** Achieving ambitious goals, seeing your progress, and most importantly, crossing the finish line of a triathlon, even the shortest one, provides an immense sense of achievement. This personal success greatly boosts your confidence in your abilities, not only in sport but also in your personal and professional life.
- **Concentration and Focus :** Triathlon requires the ability to stay focused for long periods, whether it's maintaining good technique in swimming, managing your pace on the bike, or staying positive during the run. This ability to concentrate and visualize the end goal transfers into other areas of your life.

### Social Benefits: An Inspiring Community

Although triathlon is an individual competitive sport, it is deeply rooted in a rewarding social dynamic:

- **Integration into a Community :** Triathlon is also a big family. Joining a club or training group allows you to meet people who share the same passion. It's a source of motivation, exchanging advice, and mutual support. The bonds formed in the face of challenges and shared effort are often very strong.
- **Sharing Experiences :** Whether it's discussing the best transition strategies, the latest gear, or training routes, triathlon provides many opportunities to share and learn from others. The spirit of camaraderie is ever-present.
- **Mutual Inspiration :** Seeing other athletes train, participate in races, and cross their own finish lines is a constant source of inspiration. It creates an environment where everyone is encouraged to push their limits.
- **Networking and Meetings :** Triathlon events, from training sessions to competitions, are unique meeting places. You'll encounter people from all walks of life, a great opportunity to expand your social and professional circle.

In summary, triathlon is a journey of self-discovery that pushes you to become a better version of yourself. The soreness fades, but the lasting benefits for your physical health, mental strength, and social growth remain etched in memory. All that's left for you to do is lace up your trainers, put on your wetsuit, and hop on your bike to reap the rewards of this magnificent adventure.

## 1.4 The Triathlon Community

Triathlon is often seen as an individual sport, a struggle against oneself and the clock. However, behind the image of the solitary triathlete in effort lies a **dynamically supportive and incredibly tight-knit community**. The spirit of triathlon is not only experienced at the starting line but also daily, through shared training sessions, mutual encouragement, and the bonds forged around a common passion.

### Triathlon Clubs: The Heart of the Community

Whether you are just starting out or looking to improve in triathlon, **joining a club is undoubtedly the best decision you can make**. Clubs are the true epicenter of the triathlon life. They offer much more than just access to sports facilities:

- **Professional Guidance :** Most clubs offer training sessions led by qualified coaches for all three disciplines, tailored to all levels. It's the perfect opportunity to learn the right techniques, benefit from structured training plans, and receive personalized advice to optimize your progress and prevent injuries.

- **Motivation and Encouragement :** Training in a group is a fantastic driver. The presence of other athletes, regardless of their level, creates a positive dynamic. You push each other, support each other, and find motivation even on days when it's lacking. Joint sessions are an opportunity to share efforts and successes.
- **Sharing Experiences and Advice :** Clubs are true treasure troves of information. Members share their experiences on races, equipment, nutrition, and training strategies. It's a continuous learning process and a valuable help for everyone, especially for newcomers who might feel overwhelmed by the amount of information.
- **Facilitated Logistics :** Some clubs organize group bike rides, training camps, or even logistics for races (transport, accommodations). This greatly facilitates the practice of the sport and makes the experience more friendly.
- **Social Aspect :** Beyond sport, clubs are places of life and friendship. Training sessions are followed by moments of exchange, laughter, and often shared meals. It's a great way to meet new people and forge strong connections.

## The Role of National Federations: Structure and Development

In many countries, national federations play a crucial role in the organization and development of triathlon. In the United Kingdom, **British Triathlon** is the governing body. Its role is multifaceted:

- **Regulation and Accreditation :** British Triathlon establishes the rules for competitions, ensures compliance, and accredits events, thereby guaranteeing safety and sporting fairness.
- **Licences and Insurance :** It issues licences, often required to participate in official competitions, and offers tailored insurance for participants.
- **Training and Development :** The federation trains technical staff (coaches, officials) and contributes to the development of the sport at all levels, from young athletes to veterans.
- **Selection and Monitoring of National Teams :** It is responsible for selecting and monitoring high-level athletes who represent the UK on the international stage (European Championships, World Championships, Olympic Games).
- **Promotion of the Sport :** Through various initiatives and events, the federation works to promote and enhance the love for triathlon among a wide audience.

## The Sporting Spirit and Mutual Support: Core Values

What perhaps most distinguishes the triathlon community is its **sporting spirit and incredible sense of mutual support**. Despite the competitive nature of the events, kindness prevails:

- **Respect and Fair Play :** Triathletes have deep respect for their competitors and the rules of the game. Fair play is a core value.
- **Mutual Support :** On an Ironman course, it is not uncommon to see athletes encouraging each other, lending a hand in case of technical issues (punctures, etc.), or even sharing a tough moment. The challenge of the event creates a unique bond among participants.
- **Volunteering :** Triathlon races could not happen without the commitment of volunteers, often themselves triathletes or close to the community. This investment shows how deeply the spirit of service is embedded.
- **Solidarity at the Finish Line :** The shared emotion as you approach the finish line, the encouragement from spectators and fellow finishers, all contribute to creating a unique atmosphere of collective celebration of effort.

In conclusion, while triathlon is an individual quest, it is nourished and strengthened within a rich, diverse, and passionate community. Whether you are seeking performance, well-being, or simply new friendships, you will find the support and inspiration needed to fully experience your triple effort adventure within this great family.

## Part 2 : Preparing for the Triathlon

Preparing for a triathlon is an adventure in itself, requiring **discipline, patience, and a methodical approach**. Whether it's your first Discovery race or you are aiming for an Ironman, the key to success lies in structured and balanced training.

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### 2.1 General Physical Preparation

Before you dive in, hop on your bike, or lace up your running shoes for hours of specific training, a **initial assessment** is essential.

#### 📌 Initial Assessment : Know Your Starting Point

- **Medical Health Assessment** : This is the first step, non-negotiable. Before undertaking any intensive training program, a **visit to your doctor is imperative**.
- **General Fitness Tests** : Once you have received medical clearance, assess your current level in each discipline.

#### 📖 Fundamental Training Principles

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- **Progression**: Your body needs to adapt. Gradually increase your training load.
- **Specificity**: To be good at triathlon, you need to do triathlon.
- **Recovery**: Training is only effective if the body has time to rebuild.

#### 📅 Periodization: Structuring Your Year

Periodization is the art of structuring your training over the long term to peak at your main goals.

#### 💪 Muscular Strength and Core Stability: The Overlooked Foundations

Often overlooked by triathletes, general physical preparation (GPP), including **muscular strengthening** and **core stability**, is crucial.

- Why Incorporate It?
  - **Injury Prevention**: A strong and stable body is less likely to get injured. Strengthening stabilizer muscles and joints reduces the risk of overuse.
  - **Performance Improvement**: Stronger muscles allow for better power transmission on the bike, more efficient stride when running, and better propulsion when swimming. Core strengthening (strengthening the "core": abdominals, lower back) is the cornerstone of triathlon efficiency, as it ensures trunk stability and better force transmission.
  - **Effort Economy**: A well-braced body and balanced muscles help maintain better posture and reduce energy waste, especially over long distances.
- How to Incorporate Them?
  - **Frequency**: 1 to 2 sessions per week, ideally outside of major triathlon sessions, or as a complement.
  - **Key Exercises**:
    - **Core Work**: Plank (front, side), Superman, Russian twists, leg raises.
    - **Upper body**: Push-ups, pull-ups (assisted or not), bench press (light), rowing.
    - **Lower body**: Squats (bodyweight or with light weights), lunges, Romanian deadlift (light), calf raises.
  - **Progression**: Start with bodyweight, then add light weights or resistance bands as you progress. The important thing is consistency and quality of movement execution.

By integrating these principles and building a solid physical base, you will lay the best foundations to calmly approach the specifics of each discipline. Patience and perseverance are your best allies.

## 2.2 Swimming

Swimming is the first event of the triathlon. It sets the tone for the race, and although it is less energy-consuming than cycling or running, good technical mastery can save you valuable time.

### ⚙️ Basic Technique: Efficiency Before Power

Unlike other disciplines, swimming is a sport of **feel and glide**. Raw power matters less than the efficiency of movement.

- **Breathing**: Essential and often underestimated. Learn to breathe smoothly and regularly.
- **Body Position (Hydrodynamics)**: Aim for a horizontal position, with the body aligned like a board.
- **Arm Propulsion (Catch and Pull)**: The arm movement is the main engine.
- **Leg Kicks**: In triathlon, the legs primarily serve for stabilization.

### 🏊 Training Types: Mix It Up to Progress

To become a complete swimmer, it is crucial to vary the types of sessions:

- **Endurance Training** : Swim long distances at a steady and comfortable pace. This develops your aerobic capacity and your ease in the water.
  - *Example session*: 10 x 100m (with 20-30s rest), 5 x 200m (with 45s-1min rest), or swim 1000m without stopping.
- **Speed Training** : Integrate more intense efforts over short distances to improve your maximum speed and ability to maintain a high pace.
  - *Example session*: 8 x 50m (at 90% of max effort, with 30s rest), 4 x 25m sprint.
- **Technical Training** : This is the key to progression. Use drills to correct your flaws and improve your efficiency.
  - *Example drills*:
    - **Kick drills with kickboard**: To focus on the legs.
    - **Pull buoy swimming**: To isolate the upper body and feel the glide.
    - **Single-arm swimming**: To work on coordination and reach.
    - **Closed fist drill**: To feel the pressure of the forearm on the water.
    - **Swimming with front snorkel**: To no longer worry about breathing and focus on position and water catch.

### 🛠️ Essential Gear: The Must-Haves for the Triathlete Swimmer

- **Swimming Goggles**: Choose comfortable ones that don't leak. For open water, favor tinted or polarized lenses.
- **Swim Cap**: Mandatory in competition, it keeps hair in place and helps with visibility.
- **Swimsuit**: Comfortable and suitable for swimming.
- **Pull Buoy**: A float to place between the thighs to keep the legs at the surface and focus on arm work.
- **Swim Paddles**: Accessories that increase the hand surface area to strengthen power and improve water feel. Use sparingly to avoid shoulder damage.
- **Front Snorkel**: Allows you to breathe without turning your head, ideal for focusing on position and arm movements.

### 🌊 Open Water Swimming: The Specifics of Triathlon

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- **Sighting**: Unlike in a pool, there are no lines at the bottom. You need to lift your head slightly to spot the buoys.
- **Mass Start**: The start can be chaotic. Stay calm, swim at your own pace.
- **Drafting (Aspiration)** : It is permitted to swim just behind another swimmer's feet to save energy.
- **Open Water Safety**:

- **Never swim alone.**
- **Use a swim buoy (safety buoy):** it makes you visible and can serve as support in case of fatigue.
- **Familiarize yourself with the wetsuit** (if water temperature requires it): it provides buoyancy and warmth. Practice with it before the race.
- **Identify emergency exit points** and lifeguards.

## Swimming Training Session Examples

Here are session ideas for balanced progression (adapt to your level):

### Session 1: Endurance & Technique (1800m)

- **Warm-up (200m):** 100m easy freestyle, 50m backstroke, 50m breaststroke.
- **Drills (300m):**
  - 4 x 50m (single arm only, alt.) with 15s rest
  - 2 x 100m pull buoy with 20s rest
- **Main set (1000m):**
  - 1 x 400m freestyle comfortable pace
  - 3 x 200m freestyle (slightly faster) with 30s rest
  - 2 x 50m fast with 20s rest
- **Recovery (300m):** 300m easy freestyle, varied.

### Session 2: Speed & Resistance (1500m)

- **Warm-up (200m):** 200m easy.
- **Kick work (200m):** 4 x 50m kicks with board, 20s rest.
- **Main set (900m):**
  - 6 x 100m freestyle moderate pace, with 20s rest
  - 4 x 50m fast freestyle, with 30s rest
  - 2 x 200m freestyle (progressive: each 50m faster), with 45s rest
- **Recovery (200m):** 200m easy freestyle.

Swimming is often a matter of patience and consistency. Don't get discouraged if progress seems slow at first. Each small technical improvement will have a major impact on your efficiency and confidence in the water.

## 2.3 Cycling

The cycling segment of the triathlon requires both **power, endurance**, effective **pedaling technique**, and constant **vigilance** on the road.

### Bike Selection and Setup: Your Road Partner

The bike is your most significant investment in triathlon. A good choice and precise setup are crucial.

- **Road Bike (Race)** : This is the most common and versatile choice to get started.
- **Time Trial (TT) or Triathlon Bike** : More specific and expensive, this bike is designed for maximum aerodynamics.
- **Position on the Bike: The Importance of Settings (Bike Fit)** This is the most critical point. A good position minimizes pain, maximizes power, and improves aerodynamics. It is strongly recommended to have a **bike fit** done by a professional.
  - **Saddle Height:** Affects pedaling efficiency and knee health.
  - **Saddle Setback:** Determines the position of the knees relative to the pedal axis.
  - **Handlebar Height and Reach:** Affect back and shoulder comfort and aerodynamics.
  - **Shoe Cleat Adjustment:** Essential for knee and ankle biomechanics. An optimal position will not only make you faster, but above all **more enduring and preserve your muscles** for the run.

### Pedaling Technique: More Than just Pushing!

**Cadence** : This is the number of pedal revolutions per minute (RPM). A **high cadence (85-95 RPM)** is generally more effective in triathlon.

- **Pedaling Efficiency:** It's not just about pushing down on the pedals. Efficient pedaling involves a complete circular motion:
  - **Push** forward and down.
  - **Pull** backward at the bottom dead center.
  - **Lift** the foot and pedal.
  - **Push** forward and up to pass the top dead center. Clipless pedals are essential for efficient pedaling and to use all three power phases.

### Road Safety: The Absolute Priority

Cycling is practiced on roads, often open to traffic. Safety is therefore paramount.

- **Road Rules:** Scrupulously respect the rules (red lights, stops, right of way).
- **Visibility:** Wear brightly colored clothing, use powerful lighting (front and rear) even during the day, especially in overcast weather.
- **Anticipation:** Always be attentive to your environment. Anticipate vehicle movements, door openings, potholes.
- **Hand Signals:** Clearly indicate your direction changes.
- **Road Positioning:** Ride on the right, but not too close to the edge to avoid hazards (gravel, manhole covers) and be visible.

### Types of Training: Developing All Aspects

As with swimming, variety in cycling sessions is essential:

- **Base Endurance Training** : The foundation of your preparation. Long rides at low intensity (easy conversation), improving your aerobic capacity and endurance to store and use fat as fuel. Volume is key here.
  - *Example session:* 2h to 4h of cycling at comfortable pace, without seeking performance.
- **Strength / Power Training** : Hill efforts or with a big gear at low cadence. This strengthens leg muscles.
  - *Example session:* 5 to 8 repetitions of 3-5 minutes uphill (or big gear on flat), at 60-70 RPM, followed by recovery equal to twice the effort.
- **Interval / Threshold Training** : Intense efforts (at threshold or above) to improve your power and ability to sustain high efforts.
  - *Example session:* 6 x 5 minutes at high intensity (difficult to talk), with 3 minutes active recovery.
- **Specific Long Rides:** As you approach long distances, do rides that simulate the duration of your race, including nutrition and hydration.

### Essential Gear: The Triathlete Cyclist's Equipment

- **Helmet: Mandatory and non-negotiable!** Protect your head.
- **Cycling Shoes and Clipless Pedals:** They allow you to clip your feet to the pedals for more efficient pedaling and optimal power transfer.
- **Cycling Clothing:** Cycling shorts with chamois for comfort, technical jersey, windbreaker.
- **Repair Kit:** Spare inner tube, tire levers, small pump or CO2 cartridge. Knowing how to fix a flat is an essential skill.
- **Water Bottles:** To carry enough water or energy drink.
- **Bike Computer / GPS:** To track your speed, distance, cadence, and possibly your power and heart rate.

### Training on a Home Trainer and Outdoors

- **Indoor trainer:** Ideal for structured sessions, cadence or power work, and when weather conditions are bad. It allows you to focus on effort without road constraints.

- **Outdoors:** Essential to get used to real conditions (wind, traffic, elevation), for managing turns, descents, and for long rides that build mental endurance.

## 🚲 Cycling Training Session Examples

Here are examples (adapt to your level and goal):

### Session 1: Base Endurance (2h)

- **Warm-up (15 min):** Easy pedaling, cadence 90 RPM.
- **Main set (1h30):** 1h30 at comfortable pace (Zone 2 cardio or low power), cadence 85-90 RPM. Hydration and nutrition every 20-30 min.
- **Cool down (15 min):** Very easy pedaling.

### Session 2: Strength & Resistance (1h30)

- **Warm-up (20 min):** Easy pedaling, then 3x1 min fast cadence (100 RPM+).
- **Main set (50 min):**
  - 5 x 5 min uphill (or big gear on flat) at 60-70 RPM, sustained but controlled effort. Recovery 3 min easy between each.
  - Easy pedaling between sets.
- **Cool down (20 min):** Very easy pedaling.

### Session 3: Threshold Intervals (1h15)

- **Warm-up (20 min):** Easy pedaling, then 3x1 min at fast cadence, 1 min easy.
- **Main set (40 min):**
  - 4 x 8 min at Threshold intensity (difficult to hold a conversation), with 4 min active recovery between each.
- **Cool down (15 min):** Easy pedaling.

Cycling progression is often very rapid at the beginning, which is very motivating. Work on your endurance, your power, but never forget the technical aspect and above all, safety. The road awaits you!

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Absolutely! After swimming and cycling, we arrive at the last (and often most dreaded) discipline of triathlon: **running**. This is where everything comes together, and where the fatigue accumulated during the first two events adds its challenge. But with proper preparation, you will cross that finish line with strength and determination.

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## 2.4 Running

Running is the final event of the triathlon, requiring an intense mental and physical effort after hours of swimming and cycling.

### Running Technique: Efficiency and Economy

In running, the goal is not just to move forward, but to do so in an **efficient and economical** way.

- **Posture:** Keep your body straight but relaxed. Imagine a straight line from your ankles to your shoulders.
- **Stride:**
  - **Foot strike:** Ideally, aim for a midfoot strike (the middle of the foot touches the ground first) or light heel-foot, just under your center of gravity. Avoid excessive heel striking far in front of you, which creates braking.
  - **Stride length:** Don't try to take big strides. Favor a shorter and faster stride, a high **cadence**.
- **Cadence:** The number of steps per minute. A cadence of around **170-180 steps/minute** is often considered more efficient.

## Choosing Shoes: Your Second Skin

Your running shoes are the most important tool for your feet and joints. A good choice is crucial for comfort, performance, and injury prevention.

- **Stride Type:** Pronator (foot rolls inward), supinator (foot rolls outward), or neutral. A specialized store can analyze your stride and guide you.
- **Cushioning and Stability:** Adapt cushioning to the type of running (daily training, competition), your weight, and preferences. Shoes with good support are important for stability.
- **Replacement:** Shoes have a limited lifespan (generally 600 to 1000 km depending on model and runner). Don't run with worn-out shoes, it increases the risk of injury.

## Injury Prevention: Running Safely

Running is the most impactful discipline. Prevention is therefore essential.

- **Targeted Strength Training:** In addition to general GPP, specifically strengthen leg muscles (calves, hamstrings, quadriceps, glutes) and core. Strong ankles and feet are also important.
- **Stretching and Mobility:** Integrate gentle stretching after effort and joint mobility exercises (ankles, hips) to maintain flexibility and range of motion.
- **Listening to Your Body:** The golden rule! Learn to distinguish good muscle soreness from abnormal pain. In case of persistent pain, consult a healthcare professional (sports doctor, physiotherapist). Rest is often the best remedy.
- **Gradual Progression:** As mentioned in section 2.1, don't skip steps. Gradually increase volume and intensity to give your body time to adapt.

## Types of Training: Diversify Your Sessions

A good running plan must integrate different types of sessions to develop all your qualities:

- **Base Endurance (BE) :** The foundation of your training. Running at low and comfortable intensity (you can talk without being out of breath) develops your aerobic endurance and use of fat as fuel. This is the majority of your kilometers.
  - *Example session:* 45 min to 1h30 easy run.
- **Threshold Session :** Efforts at an intensity where you are out of breath but can still say a few words. This improves your ability to maintain high speed over time.
  - *Example session:* 3 x 10 minutes at threshold, with 3 minutes active recovery.
- **VO2max (Maximum Aerobic Speed) :** Very intense and short efforts to improve your maximum speed and aerobic "engine".
  - *Example session:* Short intervals like 10 x 400m at VO2max, with recovery equal to effort time.
- **Fartlek:** The "running game". A freer training where you vary paces and terrains (spontaneous accelerations, climbs, descents). Ideal for developing versatility and breaking routine.
- **Long Runs:** Essential for M format and above. They develop your mental and physical endurance, and allow you to test your nutrition in fatigue situations.

## Triathlon Specificity: The Bike-Run Transition

This is THE key moment in triathlon where running is the most specific: transitioning from bike to run. Your legs will feel heavy, as if you have 'posts' instead of muscles.

- **Transition Training (Brick Sessions):** Regularly incorporate bike-run sessions into your training.
  - *Example:* After a 1h-1h30 bike ride, immediately chain with 15-20 minutes of running.
  - Start these "bricks" gradually, with short durations, and increase them as the race approaches.
- **Managing Heavy Legs:**
  - The first minutes of running after cycling are often the most difficult. Don't panic, the "wooden legs" effect will often dissipate after 5 to 10 minutes.
  - Start at a slightly slower pace than your running goal, and gradually increase if you feel good.
  - Focus on your posture and a fast cadence to "unroll" the legs.

## Running Training Session Examples

Here are examples (adapt to your level and race format):

### **Session 1: Base Endurance (45 min)**

- **Warm-up (10 min):** Very slow run, then a few knee lifts and butt kicks.
- **Main set (30 min):** Run at very comfortable pace, able to converse without difficulty.
- **Cool down (5 min):** Walk, light stretching.

### **Session 2: VO2max / Interval (1h)**

- **Warm-up (15 min):** Progressive run, then 2-3 short accelerations.
- **Main set (30 min of work):**
  - 10 x 400m at 90-95% VO2max, with recovery equal to effort time (ex: 1min30s effort / 1min30s walk/jog recovery).
- **Cool down (15 min):** Very easy run, stretching.

### **Session 3: Transition (Brick Session - 2h bike + 30 min run)**

- **Bike (1h30):** Bike ride at moderate pace (ex: 70-80% of your usual average speed).
- **Quick transition (3-5 min):** Chain directly into the run after putting down the bike.
- **Run (30 min):** Start the first 10 minutes at easy pace, then gradually increase over the remaining 20 minutes.
- **Recovery:** Stretching, hydration.

Running in triathlon is a unique challenge, but with specific preparation and good transition management, it can become your strength. Focus on consistency, technique, and listening to your body to progress safely.

## Part 3: Nutrition, Hydration, and Recovery

Training hard is good. But training hard while effectively fueling and repairing your body is the key to long-term success in triathlon.

### 3.1 Daily Nutrition for Triathletes

Nutrition is not just about 'race day'; it's a daily strategy.

#### Macronutrients: Fuel and Builders

- **Carbohydrates** : Your **main fuel**. They are stored as glycogen in muscles and liver, providing readily available energy for effort.
  - **Roles:** Fast and efficient energy source, essential for training and races.
  - **Sources:** Favor complex carbohydrates with low glycemic index for sustained energy (whole grains, legumes, sweet potatoes, fruits). Simple carbohydrates (dried fruits, gels) are reserved for effort or just after.
- **Proteins** : The **builders of your muscles**. They are crucial for repair and muscle growth after effort, but also for many bodily functions (enzymes, hormones).
  - **Roles:** Tissue repair, maintaining muscle mass, hormonal regulation.
  - **Sources:** Lean meats, fish, eggs, dairy products, legumes, tofu, nuts, seeds. Distribute your protein intake across each meal.
- **Fats (Lipids)** : A **concentrated energy source** essential for general health. They play a role in vitamin absorption, hormone production, and organ protection.
  - **Roles:** Long-duration energy (especially for endurance efforts), hormonal functions, cellular health.
  - **Sources:** Favor unsaturated fats (quality vegetable oils, avocados, fatty fish, nuts) and limit saturated and trans fats.

#### Micronutrients: The Little Essentials

- **Vitamins and Minerals** : Although they don't provide energy directly, they are **essential for proper body functioning**. They participate in energy production, recovery, immune function, and bone health.
  - **Importance:** Immune system support, energy metabolism, bone health (vitamin D, calcium), oxygen transport (iron).
  - **Sources:** A varied and colorful diet, rich in fruits, vegetables, whole grains, and diverse animal or plant products is the best source. Supplementation should only be considered in case of proven deficiency and under medical advice.

#### Balanced Diet: General Principles and Adaptation

- **Diversity and balance:** Aim for a varied diet covering all food groups. Eat fruits and vegetables at each meal.
- **Training Adaptation:** Your caloric intake and macronutrient distribution must adapt to your training volume and intensity. Intense training days require more carbohydrates. Rest or light training days have lower needs.
- **Meal Frequency:** Favor 3 main meals and 1 to 2 healthy snacks (fruits, yogurt, nuts) to maintain constant energy intake and avoid cravings.
- **Food Quality:** Focus on raw, unprocessed foods. Limit refined sugars, trans fats, and additives.
- **Sample Training Meal Plan (to adapt):**
  - **Breakfast:** Oatmeal with fruits, nuts, plant milk or egg, whole grain bread.
  - **Lunch:** Large mixed salads, vegetables, legumes, fish or lean meat, whole grains.
  - **Post-training snack:** Banana, compote, recovery drink, yogurt.

- **Dinner:** Vegetable soup, fish or white meat, quinoa or brown rice, vegetables at will.

## 3.2 Nutrition and Hydration Specific to Effort

Nutritional strategy changes radically around effort. The goal is to optimize stores beforehand, provide energy during, and recharge afterwards.

### Before the Effort: Charging the Stores

- **Pre-Race Meals (2-3 days before):** For M format and above, practice "carb loading" or "glycogen loading". This involves slightly increasing your carbohydrate intake (while reducing fiber and fat to avoid digestive issues) to maximize glycogen stores.
- **Pre-Race Meal (3-4 hours before):** A meal rich in complex carbohydrates, low in fiber and fat, and moderate in protein.
  - *Example:* White rice or pasta, chicken or fish, a small amount of cooked vegetables.
- **Pre-Race Snack (1h before):** A fruit (banana), a small cereal bar, or a gel for a final quick energy boost and to avoid starting hypoglycemia.

### During the Effort: Continuous Energy and Hydration

This is where strategy is most personalized and crucial. Test everything in training!

- **Hydration Strategies**
  - **Drinking small sips regularly** is more effective than large amounts at once.
  - For efforts longer than one hour, favor **isotonic drinks** that contain carbohydrates and electrolytes (sodium, potassium) to compensate for losses from sweating and maintain fluid balance.
  - Estimate your sweat rate to know how much to drink.
- **Energy Intake (Carbohydrates)**
  - **For short efforts (<1h-1h30):** Water may be sufficient.
  - **For longer efforts:** Aim for 30 to 60g of carbohydrates per hour for beginners, and up to 90g for long formats and trained athletes.
  - **Sources:**
    - **Energy gels:** Concentrated, quick to absorb. Take with water.
    - **Energy bars:** More solid, provide a bit more fiber and protein.
    - **Energy drinks:** Combination of carbohydrates and electrolytes.
    - **"Real" Foods:** Sweet potatoes, bananas, dates, small sandwiches (for very long distances).
- **Avoiding Common Mistakes**
  - **Never test new products on race day!**
  - Not drinking enough or drinking too much.
  - Not eating enough or eating too much at once (risk of digestive issues).
  - Not adapting your strategy to weather conditions (hotter = drink more).

### After the Effort: Nutritional Recovery

The recovery phase begins as soon as you cross the finish line. The body is in a state of stress and must be "recharged" as quickly as possible.

- **The Metabolic Window (30-60 minutes post-effort) :** This is the ideal time to recharge your glycogen stores and begin muscle repair.
  - **What to take?** A combination of carbohydrates (to recharge glycogen) and proteins (for muscle repair).
  - *Example:* Commercial recovery drink, a large glass of chocolate milk, yogurt with fruits, a turkey sandwich.
- **Recovery Meal (within 2-3 hours):** A complete and balanced meal, similar to your usual daily meal, with a good proportion of carbohydrates, proteins, and vegetables.

## 3.3 The Importance of Hydration

Water is the lubricant for your body, and dehydration can sabotage your performance and put your health at risk.

- **Calculating Daily Needs:** Beyond training, an adult needs about 1.5 to 2 litres of water per day.
- **Types of Drinks:** Favor water. Isotonic drinks are useful during and after effort. Tea, broths, diluted fruit juices can also contribute. Limit sugary and alcoholic beverages.
- **Signs of Dehydration:** Dark urine, intense thirst, dry mouth, fatigue, headaches, muscle cramps, dizziness.

### 3.4 Recovery and Injury Prevention

Recovery is the phase where your body adapts, becomes stronger, and repairs the micro-traumas associated with training.

- **Sleep: Quantity and Quality:** This is the pillar of recovery. Aim for 7 to 9 hours of quality sleep per night.
- **Active and Passive Recovery**
  - **Active Recovery:** Low-intensity activities (walking, very gentle swimming) that promote blood circulation.
  - **Passive Recovery:** Complete rest, naps, massages, cold/hot baths.
- **Body Awareness and Signs of Overtraining:** Learn to recognize the signs of excessive fatigue.
- **Stress Management and Mental Well-being:** Stress (whether professional, personal, or training-related) impacts recovery. Integrate relaxation techniques (meditation, yoga, reading) and ensure you maintain a balance between your sporting and personal life. A calm mind promotes better physical recovery.

By incorporating these principles of nutrition, hydration, and recovery into your daily life as a triathlete, you will not only progress: you will build a solid foundation for sustainable athletic practice.

## Part 4: Race Day

Triathlon is a trial of preparation, but above all it is about **strategic and mental management**. The big day cannot be improvised.

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### 4.1 The Week and Days Leading Up to the Race

The week before the event is crucial. It is the time when you sharpen your body and mind.

#### Tapering: Less is Sometimes More

Tapering is the phase of gradually reducing training load to arrive **fresh, rested, and at the top of your game**.

- **How does it work?**
  - **Volume reduction:** Decrease total mileage by 40% to 60% over the last 7 to 14 days.
  - **Maintaining intensity:** Continue a few short and intense sessions (small speed blocks) to maintain your sharpness and "feel" for speed, but without generating fatigue.
  - **More rest:** Allow yourself naps, gentle stretching, and emphasize quality sleep.
- **Mistakes to avoid:** Not training enough (fear of losing gains) or too much (fear of not being ready). Trust your tapering plan.

#### Mental Preparation: Visualization and Stress Management

Mental preparation is as important as physical in triathlon. Good mental preparation can transform nervousness into positive energy.

- **Visualisation** : Imagine each stage of the race: the swim start, smooth transitions, crossing the finish line.
- **Stress / Anxiety Management**
  - **Breathing:** Practice deep breathing exercises to calm the nervous system.
  - **Positive thoughts:** Replace negative thoughts ("I won't make it") with positive affirmations ("I'm ready, I've trained well").
  - **Acceptance:** Accept that nervousness is normal. Transform it into excitement.
- **Plan B:** Anticipate the unexpected (weather, equipment issues) and have a mental backup plan to avoid being destabilized.

#### Gear Preparation: The Essential Checklist

Leave nothing to chance. A comprehensive equipment list will save you the stress of forgetting something and ensure you have everything you need.

- **Bike Check:** Tire pressure, brakes, gears, clean and lubricated chain. A small checkup at a bike shop is never too much.
- **Swimming Checklist:** Wetsuit (if allowed and necessary), spare goggles, swim cap, anti-chafing gel.
- **Bike Checklist:** Helmet, cycling shoes, race number belt with attached bib, filled water bottles, repair kit (inner tube, pump/CO2, tire levers), nutrition (gels, bars), sunglasses.
- **Running Checklist:** Running shoes, socks (optional), cap/visor, specific nutrition (gels).
- **Miscellaneous:** Sunscreen, vaseline or anti-chafing, small towel, charged GPS watch, dry clothes for after the race.
- **The evening before:** Prepare your transition bag for the next day. Lay out your race outfit. Charge all your electronic devices.

#### Course Familiarization (If Possible)

If the organization allows, a course reconnaissance, even partial, is a major asset.

- **Swimming:** Identify the buoys, visual landmarks.
  - **Cycling:** Spot technical turns, climbs, dangerous sections (pavement, roundabouts).
  - **Running:** Visualize the climbs/descents, aid stations, the finish line. This reduces uncertainty and allows you to better visualize your effort.
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## 4.2 The Transition Area: The Fourth Discipline

Often referred to as the **"fourth discipline"**, the transition area is a key element of triathlon.

### ⇌ Rules and Organization of the Transition Area

Each transition (T1 and T2) is a space delimited by the organization, with strict rules.

- **Specific rules:** Respect bike mount/dismount zones, traffic directions. The helmet is often mandatory as soon as you touch the bike in T1, and must remain fastened until the bike is racked in T2.
- **Location:** Memorize the location of your bike and personal area (often numbered). Spot a visual landmark (flag, tree) to find it easily when exiting the water or bike.

### ☰ Setting Up Your Area: Order and Tips

Optimize your space for a lightning transition.

- **Order of items:**
  1. **Swim side (T1):** Cycling shoes (with elastics if you want to clip them in advance), helmet placed on top, sunglasses (in helmet), race bib (already on belt or to put on after helmet), then any gels/bars for the bike.
  2. **Bike side (T2):** Running shoes, socks (if you wear them), cap/visor, nutrition for the run.
- **Tips:**
  - **Towel:** Small light towel on the ground to dry your feet (if needed) and visually mark your zone.
  - **Anti-chafing:** Apply vaseline on the neck and under the armpits if you wear a wetsuit.
  - **Elastics on the bike:** To keep cycling shoes clipped to the pedals and put them on while rolling (advanced technique).
  - **Race bib:** Use a race number belt. Put it on before the bike (bib on the back) and turn it to the front for the run.

### ✂ Transitions: T1 (Swim-Bike) and T2 (Bike-Run)

Practice them in training!

- T1: Swim > Bike
  1. **Water exit:** Unzip the wetsuit while running, remove the top from the arms, then the bottom all at once if possible.
  2. **Arriving at the bike:** Wetsuit on the ground. Put the helmet on first and fasten it.
  3. **Cycling shoes:** Put them on (either on foot or while mounting the bike while rolling).
  4. **Bike start:** Push the bike to the mount line, get on.
- T2: Bike > Run
  1. **Last meters on bike:** Anticipate to unclip your cycling shoes before the dismount line and place your feet on the shoes or on the pedals.
  2. **Arriving at the bike:** Dismount at the line, push the bike to your area, rack it.
  3. **Running shoes:** Remove the helmet, put on your running shoes and possibly your socks (if time allows).
  4. **Race bib:** Turn your race number belt to the front.
  5. **Run start:** Go! The first strides will be heavy (the famous "wooden legs").

### ✖ Common Mistakes to Avoid in Transition

- **Panic:** Stay calm, breathe.
  - **Forgotten equipment:** The checklist is there for that.
  - **Rushing:** Better to lose a few seconds doing it right than several minutes fixing an error.
  - **Not respecting the rules:** Penalties and disqualification come quickly.
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## 4.3 The Race: Strategy and Effort Management

On race day, all the training must be executed wisely.

### Swimming: Start, Navigation, Crowds Management

- **The Start:** If you are nervous or a beginner, position yourself to the side or back to avoid the "washing machine" of the first meters. If you're aiming for performance, start strong to find your place.
- **Sighting:** Lift your head regularly to orient yourself. Spot the buoys and fixed points on the shore. This is crucial to swim straight and not lose time.
- **Crowd Management:** Stay calm if you get jostled. Breathe deeply. If you're not comfortable with contact, swim slightly offset from dense groups.
- **Pre-transition Swim-Bike:** In the last 200 meters, try to slightly increase leg kick to bring blood back to your lower limbs and prepare for the transition.

### Cycling: Drafting, Elevation, Nutrition/Hydration

- **Drafting:** Check the race rules! If drafting is prohibited (majority of long distances), respect the safety distance and time allowed to pass. If drafting is allowed (short formats, like at the Olympics), it's a tactical skill to master.
- **Elevation Management:** Adapt your gear. Uphill, try to maintain a proper cadence (not too low). Downhill, be vigilant, manage your speed and trajectories.
- **Nutrition and Hydration:** This is the key segment for your refueling. Eat and drink regularly, small amounts, as tested in training. Never underestimate hydration. Anticipate race aid stations if you rely on them.
- **Pace Management:** Don't start too fast. Maintain a steady and powerful pace, saving energy for the run. Use your data (power, heart rate) if you have it.

### Running: Transition Start, Pace Management, Race Finish

- **The Transition Start:** The first minutes after the bike are often difficult. Legs are heavy. Don't try to hit your target pace right away. Let the legs "unlock" (5-10 minutes) by running at a slightly slower pace.
  - **Pace Management:** This is the moment of truth. Aim for a steady and sustainable pace over the distance. Listen to your body. If you're on a long distance, divide the run into small goals (aid station to aid station, kilometer after kilometer).
  - **Nutrition and Hydration:** Continue refueling with water, energy drinks, and gels according to your plan. Stomachs can be more sensitive here.
  - **Pain and Mental Management:** Physical pain is inevitable on long distances. The mind takes over. Use positive strategies: visualize the finish line, think of those supporting you, focus on your breathing, divide the effort into small segments.
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## 4.4 Post-Race

Having crossed the finish line, the adventure is not entirely over. Good post-race recovery is essential.

### Immediate Recovery: The First Step

- **Rehydration:** Drink water and/or electrolyte drinks as soon as possible to compensate for losses.
- **Nutrition:** Quickly consume carbohydrates and proteins (the famous "metabolic window"): banana, recovery drink, cereal bar, etc.

- **Walking / Gentle movements:** Don't stop abruptly. Walk for a few minutes to allow your body to come down from exertion.
- **Dry clothes:** Change quickly to avoid hypothermia.

#### Race Review: Analysis of Strengths and Weaknesses

- **Hot debrief:** Note your sensations after each segment, what worked well, what was difficult.
- **Data analysis:** If you have a GPS watch, analyze your segment times, pace, heart rate.
- **Strengths:** What did you manage well? Which discipline was your asset?
- **Weaknesses:** Where did you lose time or energy? Was it nutrition, a transition, a technique? This is the time to learn for future races.

#### Post-Race Pain Prevention

- **Continued Hydration and Nutrition:** Maintain good hydration and a rich, balanced diet in the following days.
- **Rest:** Allow yourself total rest, then gentle activities (walking, light swimming) to restart circulation without stressing the body.
- **Massages / Light stretching:** Can help relieve soreness and promote muscle recovery.

Race day is a complex symphony where training, strategy, equipment, and mindset must harmonize.

## Part 5: Going Further in Triathlon

Once the first races are completed and the triathlon bug is firmly entrenched, many athletes seek to optimize their performance.

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### 5.1 Advanced Equipment: Optimizing Every Detail

While basic equipment is sufficient at first, the pursuit of performance often leads to investing in more specialized gear.

#### Swimming: Gaining Glide and Speed

- **Wetsuits:** Well beyond warmth, a good wetsuit offers increased **buoyancy**.
  - **Types:** There are specific models for racing (thinner and more flexible at the shoulders) and others for training.
  - **Maintenance:** Rinse with fresh water after each use and dry in the shade. Avoid folding to prevent marking the neoprene.
- **Competition Swim Caps:** Often provided by the organization, they can sometimes be a bit tight. Some triathletes like to wear two (one under the official cap) for more warmth or to better hold their hair.

#### Cycling: The Pursuit of Time and Power

It's on the bike that equipment investment can have the greatest impact on performance.

- **Time Trial Bikes:** Specifically designed for aerodynamics.
- **Aerodynamic Wheels :** **High rims that reduce air resistance.**
- **Power Meters :** **The most accurate training and racing tool for cycling.**
  - **Advantages:** **Allows ultra-precise power zone training, perfect effort management in races, and objective progress tracking, independent of wind, elevation, or fatigue.**
  - **Types:** **Crankset, pedals, hub, or spider.**
- **Aerodynamic Accessories:** **Aero helmet, streamlined bottles, specific triathlon suits (tri-suit) designed to minimize drag across all three disciplines.**

#### Running: Lightness and Technology

- **Specific Shoes (Carbon) :** **The latest generations offer superior energy return.**
- **Multisport GPS Watches :** **Essential for tracking training and races.**

#### Key Accessories

- **Race Number Belt:** **Essential to avoid wasting time pinning your bib and to easily turn it between bike (back) and run (front).**
  - **Advanced Hydration Systems:** **Specific bottles on bike aero bars, integrated storage systems, hydration bladders for the bike.**
  - **Equipment Maintenance Tips:** **Well-maintained equipment is high-performing and durable equipment. Regularly clean your bike (chain, cassette), check tire and chain wear, and rinse your technical clothing.**
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### 5.2 Specific and Personalized Training

Once the basics are acquired, optimizing training becomes crucial.

#### Working with a Coach: The Real Advantage

- **Advantages:** **A professional coach brings scientific and practical expertise. They design a custom training plan, adapted to your goals, schedule, strengths, weaknesses, and**

progression. They know when to load and when to rest, manage your periodization, and offer an objective outside perspective. They are also mental support and a valuable advisor.

- **How to choose?** Look for a certified coach with triathlon experience, and with whom you have good chemistry. Ask for references.

#### Using Data: Train Smart

Modern tools allow collecting an impressive amount of data. Knowing how to interpret it is a major asset.

- **Heart Rate (HR):** Measurement of physiological effort. HR zone training is a classic method to manage intensity.
- **Power (Cycling):** The most objective measure of your cycling effort. Power zones (based on your FTP - *Functional Threshold Power*) allow very precise training.
- **Pace (Running):** Speed of movement. Pace zone training is often used, especially on track or flat courses.
- **Training Load Analysis:** Software tools (Garmin Connect, TrainingPeaks, Strava, etc.) allow tracking your training load, fatigue, and fitness to optimize planning and avoid overtraining.

#### Performance Tests: Measuring Your Progress

Regular tests allow measuring your progress and adjusting your training zones.

- **MAP (Maximum Aerobic Power) / MAS (Maximum Aerobic Speed):** Indicate your maximum aerobic "engine". Specific tests (step, distance) are used to evaluate them.
- **FTP (Functional Threshold Power) in cycling:** The maximum power you can maintain for about an hour. It's the basis for defining your power zones. The most common test is 20 minutes all-out, of which 95% gives your estimated FTP.
- **Lactate Threshold Tests:** In swimming, cycling, or running, they measure the intensity at which lactate rapidly accumulates in the blood, marking the boundary between endurance and resistance.

#### Adapting to Weather Conditions

Triathlon is practiced outdoors, and conditions can vary enormously.

- **Heat:** Progressive acclimatization, intensive hydration before and during effort, light and bright clothing.
- **Cold:** Layers of clothing, protection of extremities (hands, feet, head), hydration (we often feel less thirsty), watch for hypothermia.
- **Rain:** Increased vigilance on the bike (braking, turns), protection against cold, avoid chafing.
- **Wind:** Energy management on the bike (headwind/tailwind), core work.

#### Preparation for Specific Goals

Each race has its specificities.

- **Mountainous Courses:** Integrate specific hill sessions in cycling and running. Work on strength.
- **Rough Sea Water:** Train in the sea if possible, work on sighting and wave management.
- **"No drafting" or "drafting allowed" race:** Adapt your cycling strategies.

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## 5.3 Challenges and Opportunities: Beyond the Race

Triathlon is more than just a sequence of distances. It's a rich universe of experiences and commitment.

- **Participate in Iconic Events:** Ironman UK, London Triathlon, Outlaw Triathlon, and other iconic formats.
  - **Engage in Volunteering:** Becoming a volunteer at a race is an enriching experience.
  - **The Role of Clubs and Community:** Clubs are places of meeting and sharing.
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## 5.4 Testimonials and Profiles: Inspiration through Example

Nothing is more powerful than a personal story to illustrate the richness and diversity of triathlon.

Here are some inspiring profiles and testimonials that illustrate the different facets of the triathlon adventure:

### Spotlight 1: The Beginner's Awakening

Testimony from Sarah, 32, Finished her first Sprint Triathlon

*"I had never done endurance sports before my 30s. Swimming, I had done as a child, but never in open water. Cycling, just for leisure rides. And running, let's say my couch was my main trainer! The idea of triathlon sprouted after a challenge among friends. I started with swim sessions twice a week, a bit of cycling on weekends, and three short runs per week. The first training sessions were tough, but every small progress was a victory. On Sprint day, I was terrified at the swim start. But once in the water, I breathed, I visualized, and I launched myself. Finishing was a mix of exhaustion and pure joy. I proved I could do something incredible. My body changed, my mind too. I'm already preparing for my next one!"*

Triathlon is primarily about personal progression.

### Spotlight 2: The Endurance Challenge

Testimony from Marc, 45, Multiple Half-Ironman finisher

*"After several Sprints and Olympics, I felt the need for a new challenge. The Half-Ironman became an obvious choice. The preparation was a real organizational test: balancing long weekend bike rides and midweek swim and run sessions with my family life and work was a daily puzzle. I learned the importance of consistency and patience. On my last race, I had a big energy crash mid-bike. I almost gave up. But I thought about all the training, the sacrifices, and especially the finish line I had visualized. I managed my nutrition, slowed down a bit, and found my strength again. Crossing the finish after almost 6 hours of effort is an indescribable pride. Triathlon taught me that perseverance is the key, not just in sports, but in everything I undertake."*

Long formats require meticulous preparation and unparalleled mental resilience.

### Spotlight 3: The Quest for Performance

Testimony from Léa, 28, Elite Amateur Triathlete

*"Triathlon has become my life. After years of club swimming, I discovered this discipline that immediately captivated me with its versatility. With my coach, every training session is designed to optimize my weaknesses and exploit my strengths. Power data on the bike, analysis of my running stride, video feedback in swimming... every detail is scrutinized. The sacrifices are real: a lot of training time, very strict nutrition, a social life sometimes impacted. But the feeling of progressing, pushing my physical and mental limits, is addictive. Being qualified for the World Championships is a dream come true, the culmination of so much effort. Triathlon is a school of humility, discipline, and proof that hard work pays off."*

For those aiming for performance, triathlon offers an unlimited playground for optimization.

## Part 6: Appendices and Resources

This final part aims to complement the previous information by providing practical tools.

### 6.1 Triathlon Glossary

Triathlon has its own language. Here is a glossary of the most commonly used terms.

- **Tapering (Affûtage) :** Phase of gradually reducing the volume and/or intensity of training.
- **Aquathlon :** A combined discipline that includes swimming followed by running.
- **Brick Session :** A training session involving a direct transition from cycling to running.
- **Cadence (Bike/Run) :** Number of pedal strokes per minute (RPM) or number of steps per minute.
- **Catch (Swimming) :** The phase where the hand and forearm "catch" the water to begin propulsion.
- **TT (Time Trial):** Cycling event where each participant starts alone and rides against the clock. By extension, refers to bikes specific to this practice.
- **Core:** Set of deep trunk muscles (abdominals, lower back, pelvic floor) essential for stability and force transmission.
- **Cross Triathlon:** Triathlon taking place on varied and rugged terrain, with mountain bike and trail running.
- **Drafting :** The act of cycling or swimming just behind another athlete to take advantage of their slipstream.
- **Duathlon:** Combined discipline comprising running, followed by cycling, then running again.
- **Fundamental Endurance (EF) :** Low-intensity training zone.
- **Metabolic Window:** Period (approximately 30 to 60 minutes) following intense effort when the body is most able to replenish energy stores and repair muscles.
- **British Triathlon :** National Governing Body for Triathlon in Great Britain.
- **FTP (Functional Threshold Power) :** Maximum power you can maintain for about one hour cycling.
- **Energy gels:** Fast-absorbing carbohydrate concentrates used to provide energy during effort.
- **Isotonic Hydration:** Drink whose particle concentration is similar to that of blood, allowing rapid absorption of water, carbohydrates, and electrolytes.
- **Ironman :** Triathlon brand representing long-distance format (3.8km Swim / 180km Bike / 42.195km Run).
- **Periodization:** Organization of training in cycles (macro, meso, micro) over a year or season to optimize performance at a specific time.
- **MAP (Maximum Aerobic Power):** Maximum power a cyclist can maintain for approximately 4 to 7 minutes.
- **Pull Buoy:** Float placed between the legs in swimming to focus on arm work.
- **Active Recovery:** Light physical activity performed after intense effort to promote recovery (e.g., walking, easy swimming).
- **Sighting:** Action of lifting the head in open water swimming to orient oneself and follow the correct course.
- **Sprint (S):** Short triathlon format (750m Swim / 20km Bike / 5km Run).
- **Overtraining:** State of chronic physical and mental fatigue due to training overload without sufficient recovery.
- **T1 (Transition 1) :** The switch from swimming to cycling.
- **T2 (Transition 2) :** The switch from cycling to running.
- **Tapering:** See Taper.
- **Tri-suit :** A single garment designed to be worn throughout the three disciplines.
- **VMA (Maximal Aerobic Speed) :** Running speed at which an athlete reaches their maximum oxygen consumption.

## 6.2 Useful Addresses and Resources

To continue your journey and stay connected to the triathlon community:

- **AthleteSide** : Your go-to site for articles, tips, training plans, and all the latest triathlon news.
- **Sports Federations** :
  - **British Triathlon (British Triathlon Federation)** : [www.britishtriathlon.org](http://www.britishtriathlon.org) - For licenses, race calendars, and regulations.
  - **World Triathlon (formerly ITU)** : [www.triathlon.org](http://www.triathlon.org) - The international governing body.
  - **Ironman** : [www.ironman.com](http://www.ironman.com) - The official site for Ironman and Ironman 70.3 races.
- **Reference Websites and Apps** :
  - **TrainingPeaks, Strava, Garmin Connect** : Popular platforms for recording and analyzing your training.
  - **220triathlon.com, triathlete.com, etc.**: Other specialized sites offering news, equipment tests, and training advice.
- **Recommended Books and Magazines** :
  - **Reference books on triathlon training** (e.g., "The Triathlete's Training Bible" by Joe Friel). Specialized magazines like *Triathlon Magazine* or *220 Triathlon* for news, interviews, and training plans.
- **Specialized Shops** :
  - **Don't hesitate to visit specialized triathlon shops near you.** Their advisors are often triathletes and can offer valuable advice on equipment suited to your needs and budget.

## 6.3 Bibliography / Sources

This white paper is based on general knowledge of triathlon and recognized training principles.

- **Friel, Joe.** *The Triathlete's Training Bible*. Velopress.
- **Data and publications from British Triathlon and World Triathlon.**
- **Scientific articles and journals in exercise physiology and sports nutrition.**
- **Scientific articles and specialized journals in exercise physiology and sports nutrition.**

## 6.4 50 Pro Tips to Perform in Triathlon

General (Mindset & Planning)

1. **Prioritize consistency over intensity:** Aim for a minimum of 3 to 4 training sessions per week, spread across the three disciplines, rather than 1 or 2 very intense but spaced-out sessions. Your body's adaptation is gradual.
2. **Recovery is part of training:** Make sure you have at least 1 to 2 days of complete or active rest (walking, gentle stretching) per week. Plan "lighter" weeks (reduction of 20-30% of volume) every 3-4 weeks of intense training.
3. **Listen to your body:** Learn to recognize signs of overtraining (performance drop over 2-3 consecutive sessions, persistent fatigue upon waking after 7-8h of sleep, irritability). Take 2-3 days of complete rest if these signs appear.
4. **Have a plan, but be flexible:** If something unexpected happens, postpone a session rather than forcing it. If you miss more than 3 days, revise your plan to reintegrate the load gradually over the following 2 weeks.
5. **Set SMART goals:** For example, "Finish my first Sprint triathlon in less than 1h45 within 3 months."
6. **Visualize success:** Spend 5 to 10 minutes each day, especially before big sessions or the race, mentally visualizing each segment successfully.
7. **Keep a training log:** Spend 5 minutes after each session to note your data (duration, distance, pace/power, HR) and your sensations (RPE scale from 1 to 10).

8. **Don't fear "off" days:** A day without training can bring you more recovery than 2 days of fatigued training.
9. **Get coached:** Invest in a coach if your budget allows (from £50-100/month depending on packages). Their expertise can save you months, even years, of progression.

## Swimming

10. **Technique before power:** Dedicate at least 30% to 40% of your swimming time to drills and technical correction, especially if you're a beginner.
11. **Breathe on both sides (bilateral breathing):** Integrate it every 3rd or 5th arm stroke for balanced development and better sighting.
12. **Practice sighting:** Train yourself to lift your head every 8 to 12 strokes to spot buoys, in the pool then in open water.
13. **Train in open water:** Do at least 3 to 5 sessions in open water before your first competition.
14. **Try drafting:** Swimming in another swimmer's feet can save you up to 20-30% energy. Train to stay less than 1 meter from the feet.
15. **Emphasize the "kick" (leg kick) in the last 200 meters:** Increase your leg kick intensity by 20-30% over the last 100-200m to reactivate legs and facilitate the transition.
16. **Invest in good goggles:** Comfortable, leak-free swim goggles will save you energy. Plan a spare pair on race day.
17. **Use a wetsuit if allowed and necessary:** It provides buoyancy that can save 1 to 3 minutes on an M format. Train at least 2-3 times with it before the race.
18. **Unzip your wetsuit before exiting the water:** Start unzipping and removing the top from your arms over the last 20 to 50 meters before exiting.

## Cycling

19. **Power is queen:** A power meter can gain you up to 5-10% efficiency on a course. Aim for power zones based on your FTP (Functional Threshold Power).
20. **Work on your cadence:** On the flat, aim for a cadence of 85 to 95 RPM. Uphill, try to maintain at least 70 RPM to avoid depleting your muscles too much.
21. **Adopt an aerodynamic position:** A bike fit costs between £150 and £300 but can save precious minutes on an M or L format, while improving comfort and preventing injuries.
22. **Ride out of the saddle on climbs:** Alternate seated and standing position (15-30 seconds every 2-3 minutes uphill) to relieve certain muscle groups.
23. **Anticipate gear changes:** Shift gears before the hill or as soon as the slope increases, don't wait to be struggling.
24. **Familiarize yourself with clipless pedals:** They can improve your pedaling efficiency by 15-20% by allowing you to pull the pedal upward.
25. **Learn to fix a flat:** Train yourself to change an inner tube in less than 5 minutes. Always have 2 inner tubes, 2 tire levers, and a CO2 cartridge (or mini-pump).
26. **Test your nutrition and hydration on the bike:** Aim for 60 to 90 grams of carbohydrates per hour and 500 to 750 ml of liquid per hour on long formats. Test it on rides of more than 2 hours.
27. **Practice U-turns and tight corners:** If your race course has them, train yourself to take them at different speeds and angles at least 5 to 10 times.
28. **Safety first:** Respect safety distances (more than 1.5 meters from cars), be visible with bright colors and lights if visibility is low.

## Running

29. **Work on your running economy:** Aim for a cadence of about 170-180 steps per minute for a lighter and less traumatic stride. Use a metronome if necessary.
30. **Integrate "brick sessions" (bike-run):** Do at least one "brick" per week during the specific period, starting with 15-20 minutes of running after the bike and gradually increasing.

31. **Start the run slightly below your target pace:** Aim for a pace 5 to 10% slower over the first 2 to 3 kilometers after the transition, then accelerate.
32. **Do specific strength training (GPP):** Integrate 2 sessions of 20-30 minutes of core work and leg strengthening per week.
33. **Vary the terrain:** Run on asphalt, paths, track. Try trail outings to strengthen stabilizers (1 to 2 times per month).
34. **Don't neglect dynamic stretching before and static after effort:** Spend 5-10 minutes on each routine.
35. **Choose suitable shoes:** Replace your shoes every 600 to 1000 km to maintain good cushioning.
36. **Control your breathing:** Train yourself to breathe with the abdomen and maintain a rhythm (e.g., 2 counts inhale / 3 counts exhale).

#### Nutrition and Hydration

37. **Test EVERYTHING in training:** Test your nutritional strategy on at least 3 long outings (bike or combined) before race day.
38. **Hydrate constantly:** Drink at least 2 liters of water per day outside of training.
39. **Eat healthy and balanced daily:** Aim for a distribution of approximately 50-60% carbohydrates, 20-25% protein, 20-25% fat for your main meals.
40. **Adapt your carbohydrate intake to your training load:** On intense training days, increase your carbohydrates by 10-20%.
41. **Don't forget protein:** Consume approximately 1.6 to 2.0 grams of protein per kg of body weight per day for muscle recovery.
42. **Carb-load before the race (for long formats):** Increase your carbohydrate intake by 10-20% in the 2-3 days before the race.
43. **Drink and eat in small amounts regularly during the race:** Take a gel every 30-45 minutes and sips of energy drink every 10-15 minutes.
44. **Recover with carbs + protein post-race:** Consume approximately 0.8g of carbohydrates per kg of body weight and 0.2g of protein per kg of body weight in the "metabolic window".

#### Race Day & Transitions

45. **Prepare your equipment the day before:** Have a detailed checklist and count your equipment twice.
46. **Locate your transition area well:** Memorize your number and count rows from a fixed landmark (3rd row, 5th bike on the right).
47. **Practice your transitions:** Time yourself during your "brick sessions" to simulate T1 and T2 and optimize them (target: less than 2 minutes for each on a Sprint/M).
48. **Don't change anything on race day:** No new gel brand, no new socks, no new strategy. Stick to what you've tested at least 3 times in training.
49. **Manage your energy:** Don't exceed 80-85% of your FTP on the bike if you're aiming for a solid run on an M or L format.
50. **Enjoy!:** Take a moment (a few seconds) when crossing the finish line to savor it. You worked for this!

## Conclusion

**Triathlon is much more than the sum of three disciplines; it's a true human adventure. From the first hesitant steps in the water to the final strides across the finish line, every triathlete writes their own story of overcoming, resilience, and self-discovery.**

**Through this guide, we have sought to demystify this fascinating sport, provide you with the keys for solid preparation, and shed light on the many aspects that make it such an addictive passion. Whether you are a complete beginner dreaming of your first Sprint, an experienced athlete aiming for an Ironman, or simply curious about this triple effort, we hope this white paper has provided you with the knowledge and inspiration needed to move forward.**

**The journey is fraught with challenges, doubts, and fatigue, but the rewards are immense: improved health, a strong mindset, and the invaluable pride of having accomplished what many do not even dare to imagine.**

**AthleteSide is here to support you at every step of your journey. Join our community, share your experiences, and continue to explore the depths of this sport that never ceases to amaze us.**

**So lace up your trainers, hop on your bike, dive into the water; and let the triathlon adventure continue!**

# **Your Triathlon Adventure Is Just Beginning!**

**We hope this guide has enlightened and inspired you for your triathlon goals. Every effort, every training session, every race is a step towards a stronger version of yourself. Join the AthleteSide community and let's continue this exciting adventure together!**

**Visit our site now:**

<https://www.athleteside.com>

**Questions? Suggestions? Contact us:**

**Email: [contact@athleteside.com](mailto:contact@athleteside.com)**

