

CYCLING IN COMPLEX ROAD ENVIRONMENTS

Positioning

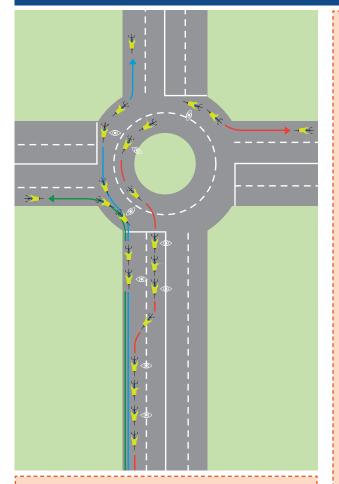
Positioning refers to where a road user is on the road, relative to other users. In the context of safety for cyclists, it is critical, and correct positioning will allow a cyclist to move competently and confidently on the road network.

NOTE: SAFE CYCLISTS ARE FULLY CONVERSANT WITH THE RULES OF THE ROAD AND USE THIS KNOWLEDGE TO MAXIMISE THEIR SAFETY, AND THE ROAD SAFETY OF OTHERS WHILE CYCLING





Complex Multi-Lane Roundabouts



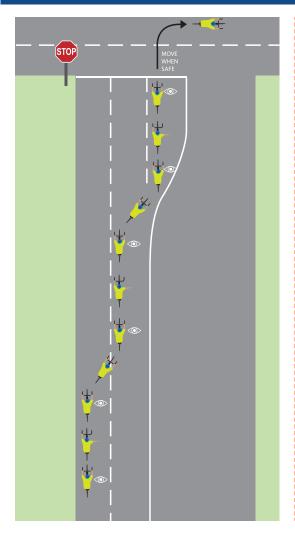
- When approaching a **complex roundabout** - **LOOK** at the **lane markings**
 - **POSITION early** in the centre of the appropriate approach lane
- Take the **left lane when turning left** or going **straight ahead**
 - keep **about two metres from the edge** all the way through the roundabout
- Take the **right lane when turning right**, or taking the **third or subsequent exits**
- Move over carefully **lane by lane** to get to the **target position** for negotiating the roundabout
 - LOOK behind (SHOULDER CHECK)
 - **SIGNAL** where necessary
 - LOOK again
 - MOVE decisively and quickly when a safe gap appears
 - for **each lane move** to be made
- Once on the roundabout, move round as quickly andsafely as possible

• Turning left

- LOOK behind.
- Signal to the left.
- **LOOK for traffic on the roundabout**, especially approaching from the right.
- GIVE WAY to traffic from the right.
- LOOK again.
- ENTER to the left.
- LOOK behind before exit.
- SIGNAL to the left again.
- **Stay left** when exiting the roundabout.
- Going straight
- LOOK behind.
- Ensure you are in the **correct lane**, ideally in the **primary position** which will be **safest**.
- GIVE WAY to traffic from the right.
- LOOK again.
- Enter the roundabout travelling at a **controlled speed** to allow for anything unexpected such as a slippery surface.
- **LOOK behind** when just past the exit before the intended exit.
- SIGNAL to the left
- **Stay left** when exiting the roundabout.
- Turning right
- LOOK behind.
- Ensure you are in the **correct lane**, ideally in the **primary position** which will be **safest**.
- **SIGNAL** to the right and wait for a safe gap.
- CHECK BEHIND again.
- **GIVE WAY** to traffic approaching from the **right**.
- LOOK again
- **Stay in the primary position moving round** the roundabout.
- LOOK again, SIGNAL to the left and move to the secondary position.
- **LOOK again and stay left** when exiting the roundabout.
- Many roundabouts revert to a **single lane** at each exit
 - can act as a **pinch point** with drivers converging
- position in the **primary position** in the centre of the lane for maximum visibility and safety
- If possible, make **eye contact** with drivers **waiting to join the roundabout** when passing
- LOOK behind (SHOULDER CHECK) for following traffic where lanes merge, or if changing lanes
- Avoid moving to the **centre island** of a busy roundabout
 - a cyclist can be **invisible** to other vehicles in that position
 - a cyclist can get stuck there, trapped by fast moving traffic



Multi-Lane Turns



• Move over carefully **lane by lane** to get to the target turning position for - a dedicated turn lane - multiple turn lanes ~ LOOK behind (SHOULDER CHECK) ~ SIGNAL where necessary ~ LOOK again ~ MOVE decisively and quickly when a safe gap appears ~ for **each lane move** to be made • For a turn to the **right** - move to the **PRIMARY POSITION** towards the **middle** of the correct lane - align with the destination lane in the target road - If there are **traffic lights**, keep watch when turning with the lights for any vehicle breaking them from another direction - For a **filter light** position on the left side of the lane turning right, so traffic does not cut across, and the rider is then left closest to the left edge of the road after turning when the traffic is clear - For an Advanced Stop Line ~ move forward and take up the **same position**, if it is safe to do so ~ **otherwise stay** with the traffic • Complete a turn into the **equivalent lane in the target** road • Once the turn is made, if necessary, use the same lanechanging skills to move over lane by lane to the lefthand edge again



Bus Lanes

- Cyclists are generally permitted to use bus lanes, even if there is an adjacent bike lane
- Contra-flow bus lanes are for the exclusive use of buses
- Some bus lanes are wide enough to accommodate both a **cyclist and a bus side-by-side** and some are not
- For safety, keep the primary position in high volume traffic in high volume traffic
- Expect buses to stop and start off suddenly - look out for passengers starting to stand and move around
- Watch out for the last passenger entering or leaving a bus
 - it might be **about to restart**
 - someone may step out without checking for traffic on the road
- Be sure a stationary bus won't pull away as you pass
 - if in doubt, it is better to stop and wait until the vehicle starts to move again
- Give priority to buses when they signal to pull away from stops
- wait before passing a bus that is indicating to pull out
- Buses have **blind zones**
 - a driver will be unlikely to see a cyclist moving **along the side**, especially **on the left**
 - behind the vehicle
 - directly in front of the vehicle
 - a driver won't see a cyclist if the cyclist can't see the driver's mirror
- At night, remember that the only way a bus driver will see a cyclist is if they have strong, clear lights
 red to the rear, so the driver is aware they are approaching the cyclist from behind
- white to the front, to identify the cyclist is approaching
- At night, safety will also be greatly enhanced by the wearing of hi-visibility, reflective items of clothing
- Watch out for **taxis using bus lanes stopping** suddenly to **pick up a passenger**

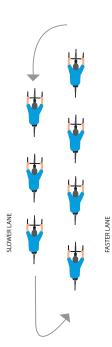
Rural Cycling

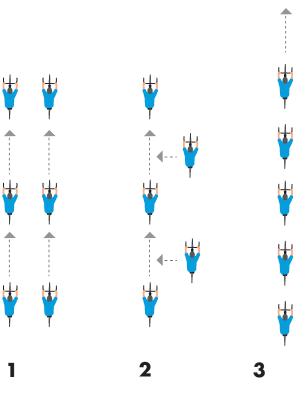
- Wear high-visibility clothing, as lighting may be very poor
- Watch out for motorists driving at unsuitably high speeds
- On a narrow country road, with a car behind on approach to a bend
 - Look behind (SHOULDER CHECK)
 - make eye contact if possible
 - move out to the **PRIMARY POSITION** to give **maximum visibility of the cyclist to traffic behind and approaching**
- On reaching the corner, take up the SECONDARY POSITION to the left
 - motorists travelling in the **opposite direction may be too far over**, especially if the **road is very narrow**
- don't get too close to the edge, as a broken or gravelled, stony margin can cause a fall
- Hearing is hugely important
 - a cyclist will often be able to hear approaching traffic before seeing it
- Watch out for
 - potholes
 - **momentary blindness** on a sunny day moving from brightness into the dark shade of a tree canopy overhead



Cycling in Large Groups

- Break into **smaller groups**
 - about **four to six** per group
 - about one hundred metres between
 - allow traffic to pass, subgroup by subgroup
- If the **road is narrow** or twisted, it may be appropriate to
- Ride in the **PRIMARY POSITION** to give maximum visibility of the cyclist to traffic behind and approaching
- Riding **two abreast** may also help motorists by **shortening the length of a group**, facilitating overtaking where safe







Cycling at Night

- Low light conditions
 - move more cautiously
 - allow more time for other road users to see and realise what a cyclists is about to do
 - have **strong lights** which will clearly show the road directly ahead and also any obstacles in time for the rider to take safe avoiding action
 - a white light to the front to see with and to be seen by approaching traffic
 - a red light and a reflector to the rear so that other road users are aware of a cyclist from behind
 - as **flashing** lights attract attention, but can make it hard to judge distance and speed, at night, a good compromise is two lights, **one steady and one flashing**, to allow maximum visibility and attention-grabbing impact.
 - branches
 - parked vehicles
- Be as visible as possible on the bike at night
 - high-visibility clothing
 - high-visibility accessories
 - strong lights
- Cycle more slowly as all-round awareness will be limited
 - the chances of something unexpected occurring will be greater
 - a pedestrian stepping out
 - an **animal** running across the road
 - other road user not seeing a cyclist
 - environment
- Don't look straight at a vehicle coming in the opposite direction on an unlit road
 - risk of being dazzled by its lights
 - stay aware of the vehicle's movements
 - focus on the road ahead, keeping a safe distance from the edge

Route Planning

- Use electronic journey planners (GPS)
- Use conventional maps
- Local knowledge
 - schools times in an area
 - rush hour start time on Friday evenings
 - upcoming events which might affect traffic volumes
 - weather conditions
 - can affect cycling and the choice of clothing/equipment





Carrying Young Children on a Bike

- Mount devices for carrying children correctly according to the manufacturer's instructions
- A seat mounted on the crossbar is the safest way to carry young children (pre-walking age)
- A seat mounted behind the bicycle seat is suitable for toddlers
 - alters the centre of gravity of the rider
 - can increase the risk of losing balance
- Place and remove children from seating carefully
- Never leave a child unattended in the carrier
- Carry older children in a child bicycle trailer towed behind the bike
 - stable
 - won't tip
- Carry children who are almost ready to cycle independently on a tag-along bike attachment
 - tandem arrangement to the adult bike

Cycling with children on the road

- Make sure the bike is the right size for the child
- be sure to always complete the pre-cycle checks
- Keep the **child**
 - closer to the side than the accompanying adult
 - **in front** of the adult
 - keep distance **from the edge** of the road to avoid falls (one metre)
- Start with a **route**
 - with little or no traffic to give a child the chance to get used to the physical environment of the road
 road signage and right of way
- Use clear, calm, early instructions
- asking a child to turn just before a corner can cause a rush and will affect confidence
- It is always recommended to carefully pull in, get off and **walk for difficult manoeuvres** with young or novice cyclists
 - right-hand turns
 - roundabouts

Basic Maintenance

- Carry a stocked, **well-maintained kit** with suitable **tools** and backup **parts** for basic bike repairs in an on-road environment
- Be able to **repair a puncture** at the roadside
 - by the **traditional method**
 - with use of aerosol sealant
 - move to a safe off-road position
- **stay path side** of the bike at all times, turn the bike if necessary to ensure this
- Be able to adjust bike dimensions (saddle, handlebars) as needed to facilitate optimal riding position