

Bulletin 2, Final Details

Version 2 (see overview of changes on last page)

World Ranking Events

Sprint + KO Sprint, 23-24 October 2021

Organisation

The event is organised by the WOC 2022 organisation with support from OK Syd.

Event Director	Flemming Jørgensen	flemming.joergensen@woc2022.dk
	Terkel Knudsen	
Event Office	Dorthe Rosenvinge	office@woc2022.dk
Event adviser	Kell Sønnichsen	
Course/map contr.	Troels Christiansen	
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Contact

Event Office: Dorthe Rosenvinge

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Programme

Saturday 23 October Sprint, Aabenraa

08:30-09:30	Quarantine check-in, Sprint Qualification
10:00	Sprint Qualification, first start
12:30-13:30	Quarantine check-in, Sprint Finals (A+B)
14:00	Sprint Final, first start A-Finals
15:30	first start B-Finals
15:45	Prize-giving ceremony

Sunday 24 October Knock-Out Sprint, Billund

08:00-09:00	Quarantine check-in, Knock-Out Sprint Qualification
09:30	Knock-Out Sprint Qualification, first start
11:15	Athletes' heat choice
12:30-13:15	Quarantine check-in, Knock-Out Sprint Finals
14:00	Knock-Out Sprint Finals, first start
16:45	Prize-giving ceremony

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World Ranking Event

Both competitions are classified as IOF World Ranking Events. At the sprint competition, there will be a B-Final which will also count for the World Ranking. At the Knock-Out Sprint competition, the qualification and the results of the elimination rounds will count as separate World Ranking Events.

Embargoed Areas

Please find the embargoed areas for both competitions [here](#). The areas are strictly embargoed. Competitors, team officials, and other persons who, through knowledge of the terrain, may influence the results of the competition, are not allowed to enter the embargoed areas unless explicitly permitted to do so by the organisers. The areas are embargoed until the respective competition is finished.

Start Lists

Start lists for the qualification races will be available on IOF Eventor and on the WOC 2022 webpage at 20:00 Thursday 21 October. For the Sprint Finals and the KO Sprint Finals, they will be published as soon as possible on IOF Eventor, on the WOC 2022 webpage, and in the Team Zone/Arena.

Results

Results will be available on <https://www.woc2022.dk/wre-october-2021/> after the competition. Online results will be available here: <https://r.emit.live/>. Preliminary and final results will be posted on a result wall and on video screens at the arenas.

Spectator Races

Spectator races will be held both days during the breaks between the qualifications and the finals. Control stands used for the spectator races will occasionally be present in the race terrain. The stands will be equipped with Sport Ident punching system.

Medical Care

Medical care and first aid will be available at the competition arenas. Athletes are responsible for their own insurance. The emergency call number in Denmark is 112.

Control Descriptions and Number Bibs

Control descriptions will be available in the start corridors and are also printed on the competition maps. Control descriptions will be printed in size 6 mm/cell. At the Knock-Out Sprint Finals, control descriptions are printed only on the map.

All competitors must wear number bibs at all competitions. The bibs must be worn on the chest as well as on the back and be visible in their entirety. They may not be folded or cut. Bibs will be delivered by the organiser in the quarantine.

Punching, Timing and GPS Tracking

Punching System:

Emit Touch-Free Pro punching and timing system is used in all races. Timekeeping services will be provided by Emit AS. EmiTag units will be handed out in the quarantine. The EmiTags shall be returned to the organizer at the finish after the last race of the two days. Each runner will carry two EmiTags around the same wrist. The

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punching is performed by holding the EmiTag 20-50 cm from the control for a short moment. The LED light in the EmiTag will start flashing to indicate a successful punch and will keep flashing for 5 seconds.

The EmiTags will be checked by the organisers at Quarantine check-out when leaving for start. In the start boxes the EmiTags shall be cleared.

GPS Tracking:

GPS tracking will be provided by TracTrac. Tracking devices will be used in the finals both days. All competitors shall be prepared for GPS tracking, and the tracking device shall be carried on the back of the competitor in an elastic harness. Athletes are recommended to use their own harnesses, but they can also be borrowed in the quarantines. Borrowed harnesses shall be returned at the Event Office after the last race. Not returned equipment will be invoiced afterwards. GPS units will be placed by an official in the athletes' harnesses before start.

Clothing

There are no clothing regulations. Spiked shoes are not allowed.

Quarantine

Quarantine zones are described in detail in the Specific Competition Information section. There will be a check-in when entering the quarantine zones.

In the quarantines, there are toilets and water available. Warm-up maps without controls will be available. Warm-up areas are considered as part of the quarantine.

The use of mobile phones, computers or any other communication device inside the quarantine zones is strictly prohibited. It is not allowed to bring any maps of the competition areas into quarantine zones. Runners and coaches are not allowed to visit the finish areas before entering the quarantine zone. Competitors must enter the quarantine zone before the specified deadline. Runners, who arrive after the deadline, will be excluded from the competition.

Also note, that GPS-enabled devices (e.g., watches) shall not be used during the competitions if they have map display, telecommunication, or navigation functionality

All quarantines offer sheltered areas (buildings). There will be a clock showing the official competition time. Bags will be transported to the finish area or team zone.

Coaches are not allowed to follow the athletes beyond the call-up line.

Finish

The marked route from the last control to the finish line shall be followed. After crossing the finish line, the athletes read out their EmiTags and return the maps and GPS device. For fair play reasons it is forbidden to re-enter the competition area until the last athlete has arrived at the finish on the finals. Roofed Team Zones will be available in the Finish/Cool-down area for rest.

Complaints and protests

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Any complaint shall be made in written form and handed over to the organisers at the Event Office or to the Event Director as soon as possible. A special form is available at the Event Office. Complaints regarding the results shall be made no later than 15 minutes after the full preliminary results have been announced by the speaker.

A written protest can be made against the organiser's decision about a complaint. Written protests shall be delivered personally to a jury member or to the Event Office no later than 15 minutes after the organisers have announced the decision about the complaint.

Special rules for Knock-Out Sprint Finals:

Any complaint shall be made to the organiser as soon as possible, and no later than three minutes after the corresponding heat results are published on the result wall. The organiser adjudicates a complaint. The complainant is informed about the decision immediately. Any protest against the organiser's decision shall be made to the organiser no later than three minutes after the organiser has announced the decision about the complaint. Complaints and protests and the announcement of decisions may in the Knock-Out Sprint Finals be made verbally, provided they are recorded in written form for subsequent publication.

Prizes

There will be prizes for the 3 best ranked athletes in each class. Prize-giving ceremonies will be held at the arenas immediately after the final races (see app. times in the programme above). There will not be prizes for B-finals.

General Competition Information

Maps:

The competition maps are drawn by Gediminas Trimakas in 2021 in accordance with ISSprOM 2019. Contour interval 2.5 m. Scale 1:4,000. The maps are printed by digital printing on waterproof paper.

Special map symbols:

- o = playground or sports object
- x = special object

After the races, when announced by the speaker, the competition maps can be picked up at the Event Office.

Controls:

The Emit punch units are placed on a wooden stand. The stand is 140 cm long with one unit at each end. An example of a control stand will be present at the quarantines.

Traffic:

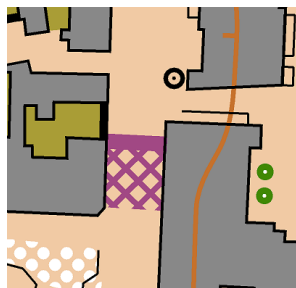
There is local traffic in the race areas. Traffic guards will guide and regulate the traffic at some road crossings. There will also be crowdy with pedestrians in some areas. Competitors are strongly advised to be aware of the traffic and **take care of pedestrians**.

Out-of-bounds Areas:

Out-of-bounds areas that may otherwise be difficult to distinguish, are marked with continuous yellow/black tape in the terrain

Artificial Barriers:

Artificial barriers will be installed in the race areas. They will be marked on the map by an Out-of-bounds line (708) accompanied by an Out-of-bounds area (709) on the back side. In the terrain, the barriers will be made up by a row of orange/red plastic poles (see picture) in some places interconnected with yellow/black plastic tape. Where plastic tape is not used, e.g., across roads and streets, guards equipped in orange vests will be present between the poles. Watch out for these barriers, they can be difficult to identify in busy areas with many pedestrians and much traffic.



Specific Competition Information

Sprint Qualification 23 October 2021

Competition format: The qualification race takes place in the morning with three heats for each gender. 45 women and 45 men qualify for A-Finals in the afternoon – the best 15 athletes from each heat. All athletes who have completed their qualification races may compete in B-Finals.

Competition area: Aabenraa

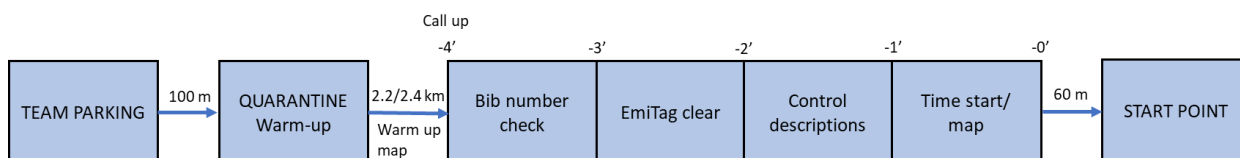
Arena: [Storetorv, 6200 Aabenraa](#).

First start: 10:00

Start interval: 1 min

Maximum running time: 40 min

Schedule:



Course details:

	Winning time	Length	Climb	Number of controls
Women A, B, C	13 min	3.5-3.7 km	60 m	13-14
Men A, B, C	13 min	3.8-4.0 km	65 m	17

Terrain: The terrain is characterised by an asymmetrical structure of narrow streets with small town houses, shops and café and dining areas. Many streets are paved with cobblestones. Outside the old part of the town, the area is dominated by public buildings and schools, apartment buildings, office blocks and parking lots. Some park areas and forested areas also exist in the competition area. Old railway tracks may be crossed/entered on where the railway symbol (509.1) is not combined with symbol 520 (olive green) or 709 (out-of-bounds area).

Team/athlete parking: Skolevænget, 6200 Aabenraa:

<https://goo.gl/maps/ZzFSCUL4Vkxa3oUX9>. The team parking area shall be accessed by following this mandatory route into the Embargoed area: Forstallé-Dronning Margrethes Vej-Skolevænget, <https://goo.gl/maps/kPz9PBBd7Mhww4aE6>. Walking distance from Team Parking to Quarantine: 100 m. Follow signs.

Quarantine: The Quarantine will be located at an indoor facility (Idrætshuset, Aabenraa Statsskole). The quarantine opens at 08:30 and latest **check in time is 09:30**. A warm-up area is available in the quarantine zone; warm-up maps will be handed out. Bags will be brought to the Team Zone at the arena. Coaches and team officials leaving the

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quarantine for the arena, shall follow a mandatory route marked on a map handed out at the Quarantine (700 m).

Pre-start/call up: A map showing the route to Call up/Start will be handed out in the Quarantine. The distance to call up/first start box is 2.2 km for Women and 2.4 km for Men. 95% hard ground and no climb. Women and Men have different start places. Clothes will be brought to the Team Zone in the finish area. Toilets will be available after 2.2 km.

Start procedure: At -4 minutes the athlete will be called to the first start box. Bib number check at the first start box and EmiTag clear in the second start box. Control descriptions are available at -2 minutes. In the last start box, maps will be released by an official at the sound of the start signal.

Starting point: The starting point is marked with a control flag and is 55 m from time start. Follow marked route.

Control descriptions: The sizes of the separate control descriptions are 5.0 x 12.0 for Women and 5.0 x 13.7 for Men.

Finish area and Cool down: A Team Zone with tents will be present in the Finish area. A cool down map will show the area allowed for cool down. Athletes may stay in the Team Zone or in the Cool-down area until the quarantine check-in deadline for the Sprint Finals. Or they can leave the area to return again later. The Team Parking is located within the Cool Down area (700 m). The area can be left by following the same route as used to access the embargo area.

After last start, the warm-up area in the Quarantine can be used for cool down as well.

Course setter: Bjarne Hoffmann.

Sprint Final 23 October 2021

Type of competition, format: The best 45 women and 45 men in the Qualification race qualify for A-Finals. Remaining athletes who have completed their qualification races, may compete in B-Finals. Both A-Finals and B-Finals are classified as World Ranking Events.

Competition area: Aabenraa

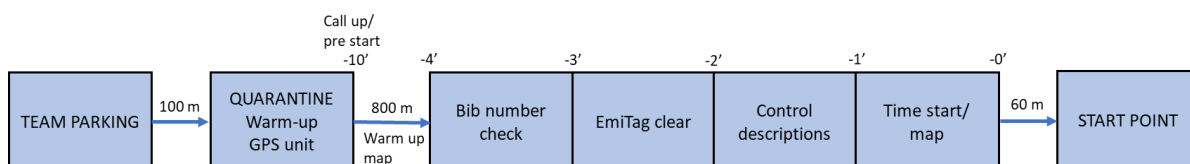
Arena: [Storetorv, 6200 Aabenraa.](#)

First start: 14:00

Start interval: 1 min

Maximum running time: 50 min

Schedule:



Course details:

	Winning time	Length	Climb	Number of controls
Women A	15 min	4.0 km	60 m	21
Men A	15 min	4.4 km	70 m	22
Women B	14 min	3.3 km	60 m	18
Men B	14 min	4.0 km	70 m	22

Terrain: As described for Sprint Qualification. See above.

Team/athlete parking: The same as used for the Qualification. See above.

Quarantine: The same as used for the Qualification. The quarantine opens at 12:30 and latest check in time is 13:30. A warm-up area is available in the quarantine zone; maps will be handed out. Bags will be brought to the Team Zone at the arena. Coaches and team officials leaving the quarantine for the arena, shall follow a mandatory route marked on a map handed out in the Quarantine (700 m).

Pre-start/call up: There will be call up at the quarantine 10 minutes before start. The athlete then has 6 minutes to reach the first start box. A map showing the route to start will be handed out at call up. The distance between call up and the first start box is 800 m. GPS units will be placed in the harness by an official at call up.

Start procedure: The same as used for the Qualification.

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Starting point: The starting point is marked with a control flag and is 45 m from time start. Follow marked route.

Map flip: There will be a map flip at some point along the course. At the top, the first map is named "Part 1" in purple text and the second map is named "Part 2" in purple text. The control number order is continued on the second map. At Start, Part 1 is facing downwards and oriented towards the North.

Control descriptions: The sizes of the separate control descriptions are 5.0 x 16.7 cm for Men A and Men B, 5.0 x 16.0 cm for Women A, and 5.0 x 14.5 for Women B.

Finish area and Cool down: A Team Zone with tents will be present in the Finish area. A cool down map will show the area allowed for cool down. The Team Parking is located within the cool down area. The area can be left by following the same route as used to access the embargo area. After the last start, the warm-up area in the Quarantine can be used for cool down as well.

Course setter: Bjarne Hoffmann

Knock-Out Sprint Qualification 24 October 2021

Type of competition, format: The Knock-Out Sprint Qualification will take place in accordance with the official [IOF Knock-Out Sprint Format Description 2019](#). There will be three qualification heats for each gender. 36 women and 36 men qualify for the finals in the afternoon – 12 from each heat. The Knock-Out Sprint Qualification race is classified as a World Ranking Event and will be counting for the World Ranking separately. Two rounds with additional race heats will be offered for non-qualified athletes.

Competition area: Billund

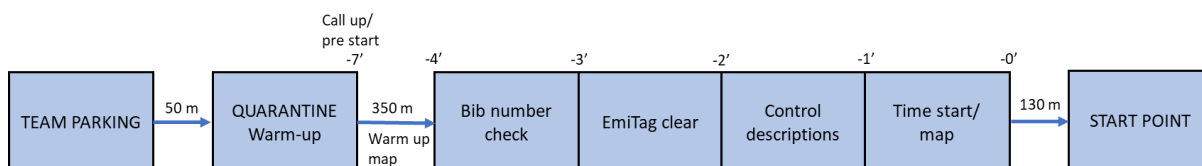
Arena: The arena is located at [Skolevej, 7190 Billund](#)

First start: 09:30

Start interval: 1 min

Maximum running time: 30 min

Schedule:



Course details:

	Winning time	Length	Climb	Number of controls
Women A, B, C	11 min	2.9-3.0 km	15 m	12-13
Men A, B, C	10 min	2.9-3.0 km	15 m	12-13

Terrain: Billund is a young town dominated by modern public buildings, hotels, conference and apartment buildings, office blocks and parking lots. The Lego House with its many stairs and platforms is located centrally in the race area. Park areas and wooded areas dominate in parts the competition area.

Team/athlete parking: Hans Jensensvej 8, 7190 Billund.

<https://goo.gl/maps/i1kwvJKPdBwRrMbp8>. The Team Parking shall be accessed via Solsortvej and Hans Jensensvej into the embargoed area:

<https://goo.gl/maps/G5wQMRH9doLHH9k3A>. Walking distance from Team Parking to Quarantine: 50 m. Follow signs.

Quarantine: The quarantine will be in an indoor facility (Billund Centret, North entrance). The quarantine opens at 08:00 and latest **check-in time** is 09:00. Bags will be brought to the Team Zone in the Finish area. A warm-up area including a map is available in the

quarantine zone. Coaches and team officials leaving the quarantine for the arena shall follow a mandatory route displayed on a map available in the Quarantine.

Pre-start/call up: The call-up site is shown on the warm-up map. Call up will take place 7 min before start. A map showing the route to the start boxes will be handed out at call up.

Start procedure: The same as for the Sprint Qualification and Final, see above.

Starting point: The starting point is marked with a control flag and is 130 m from Time Start. Follow marked route.

Control descriptions: The size of the separate control descriptions is 5.0 x 12.0 cm.

Finish area and Cool down: A roofed Team Zone will be available in the Finish area. A map outlining the cool-down area will be handed out. Athletes shall not leave the Finish area/Cool-down area until after the last start. **It is also not allowed to go to the Team Park area before last start** (since this area is a part of the quarantine zone). After last start, the warm-up area can be used for cool down.

Athletes may stay in the Finish area/Cool-down area until the Quarantine check-in deadline for the KO Sprint Final or they can leave the area and return. The area can be left by following the same route as used to access the Quarantine through the embargo area.

Competitor's Heat Choice: The heat allocation will be based on competitors' own heat choice. Competitors' heat choice will take place in the Quarantine building at approximately 11:15. If a competitor is not present at the time of the heat choice, the competitor will lose her/his right to choose the heat. After everyone present made their picks, competitors not present at the heat choice will receive the available spots randomly.

Course setter: Nicolai Zaar Nielsen

Knock-Out Sprint Final 24 October 2021

Type of competition, format: 36 women and 36 men as qualified in the Qualification race. The finals will take place in accordance with the [IOF Knock-Out Sprint Format Description 2019](#). The Knock-Out Sprint final competition is classified as a World Ranking Event and will be counting for the World Ranking.

Competition area: Billund

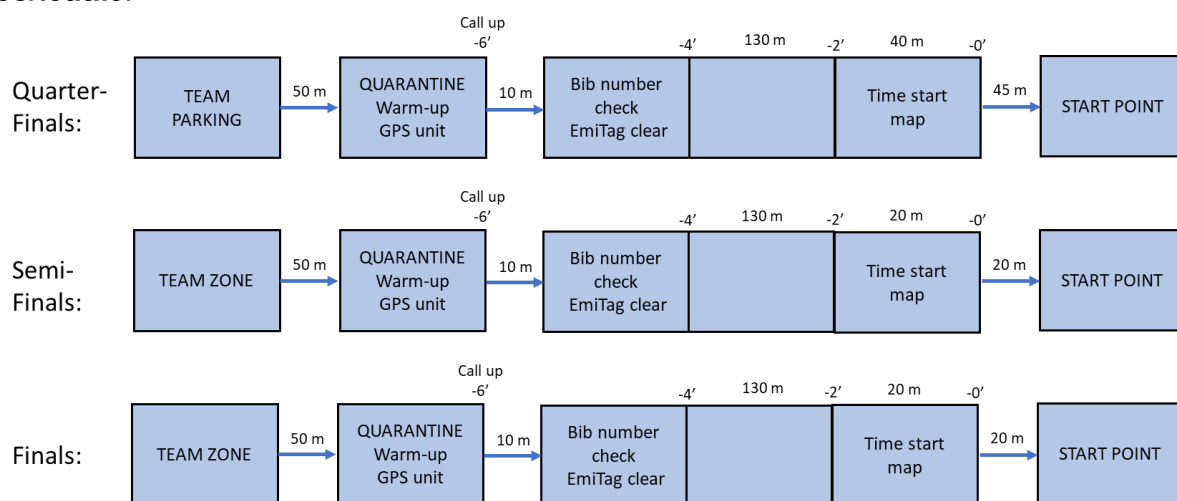
Arena: [Ole Kirks Plads, 7190 Billund](#).

First start:

- First start quarter-finals, men: 14:00
- First start quarter-finals, women: 14:24
- First start semi-finals, men: 15:15
- First start semi-finals, women: 15:33
- Start final, men: 16:10
- Start final, women: 16:20

Maximum running time: 15 min

Schedule:



Course details:

	Winning time	Length	Climb	Number of controls
Women QF	8 min	2.1 km	15 m	10
Men QF	7 min	2.1 km	15 m	10
Women SF	7 min	1.6 km	25 m	12
Men SF	6 min	1.6 km	25 m	12
Women F	7 min	1.8 km	15 m	11
Men F	6 min	1.8 km	15 m	11

Course format: The courses will be forked at the semi-finals, but there will be no forking or splitting system at the quarter-finals and finals.

Terrain: As described for KO Sprint Qualification, see above.

Team/athlete parking: The same as used for the KO Sprint Qualification, see above.

Quarantine: The Quarantine will be located at an indoor facility (Billund Centret, North entrance). A warm-up area including a map is available in the quarantine zone. Bags will be brought to the Team Zone/Cool down area (pick up point is shown on the cool down map). Coaches and team officials leaving the quarantine for the arena, shall follow a mandatory route, displayed on a map available in the Quarantine.

The opening hours and latest check-in for the Quarantine are as follows:

	Quarantine opens	Latest check-in
Men QF	12:30	13:15
Women QF	12:30	13:15
Men SF	14:50	15:00
Women SF	15:05	15:15
Men F	15:45	15:55
Women F	16:00	16:10

Entry to the Quarantine for the Semi-finals and the Finals will take place through the indoor area of the Team Zone/Cool Down area. The entrance will be shown on the cool-down map.

Pre-start/call up: There will be call up in the quarantine 6 minutes before start. GPS units will be placed in the harness by an official at call up.

Start procedure: There will be three start boxes with a two-minutes stay in each. The length of the second start box is 130 m (athletes will be escorted). The last box will comprise 6 lanes marked with numbers 1 to 6. It is the responsibility of the athletes to enter the correct lane (corresponding to the number they were assigned in the heat start list – not bib number). The map will be released by an official at the start signal.

Starting point: The starting point is marked with a control flag and is 45 m from time start at the quarter-finals and 20 m from time start at the semi-finals and finals. Follow marked route.

Map flip: A map flip will occur at the semi-final at some point along the course. At the top, the first map is named "Part 1" in purple text, and the second map is named "Part 2" in purple text. The control number order is continued on the second map. At the start, Part 1 will be facing downwards and oriented towards the North.

Start interval:

- Quarter-finals: 4 minutes
- Semi-finals: 5 minutes

Finish area and Cool down: Cool down is possible after finish. A cool down map handed out at Finish, will show the area allowed for cool down and rest. The cool-down map leads back close to the Quarantine and to an indoor Team Zone area, where bags can be picked up.

The area shall not be left, before the competitor has decided to leave the competition. Once it is left, the competitor cannot re-enter the competition.

Results, start lists and complaints/protests: Preliminary and final results will be published on a result wall in the arena. Complaint and protests must be handed in at the Event Office or directly to the Event Director at the Arena. Start lists will be available both on the Arena and in the Team Zone.

Heats for non-qualified athletes: There will be an opportunity for all athletes not qualified for the elimination rounds, to participate in two rounds of additional race heats right before the ordinary Quarter-Finals and shortly after the Finals.

Athletes, who did not qualify for the Quarter-Finals and want to participate in the first set of extra race heats, must go to the Event Office and register for their participation before leaving the Finish area at the Qualification Race. Athletes, who want to participate in the second set of race heats, shall sign in at the Event Office on the KO Sprint Final Arena.

The start interval of the race heats will be 2 minutes. There will be timekeeping but no result lists. Remember to bring your EmiTags. There is no requirement for quarantining prior to participation.

Course setter: Mads K. Larsen

Covid-19

The Covid-19 situation in Denmark is currently good, and due to a very high vaccination rate in the Danish population, virtually all restrictions to daily life have been removed. The World Ranking Events will be held in accordance with that, which means there will be no requirement for testing, social distancing or wearing face masks during the competition days.

There will, however, be hand sanitizer available at all venues, and, as a general rule, we urge everyone to keep a good hygiene and show sensible behaviour! Keep the good habits to reduce spread of the virus. Most importantly: If you experience symptoms of Covid-19, you **must** take steps to get a test and, if necessary, you must exclude yourself from the competition and stay away from the venue and isolate yourself! Contact the WOC office for help to get a test. If, at any point during your stay in Denmark, you are diagnosed with Covid-19, you must immediately contact the WOC Office who will assess the situation with regard to close contacts etc. Danish Health Authorities will also be contacted.

Travel restrictions: even though restrictions within the Danish society have been removed, there are still travel restrictions applicable to travellers from a number of countries. It is the teams' own responsibility to seek information on the travel restrictions applicable when traveling into Denmark from different countries inside and outside the EU/Schengen. Please visit our Covid-19 page for relevant links.

Covid-19 responsible: WOC Office, Dorthe Rosenvinge, +45 6130 0402

Summary of entries

23 October:

Country	Entries
Denmark	38
Finland	35
Norway	27
Great Britain	15
Switzerland	15
France	14
Czech Republic	7
Italy	6
Poland	5
Germany	4
Turkey	4
Austria	3
Belgium	3
Sweden	3
Japan	2
Latvia	2
Croatia	1
Ireland	1
Lithuania	1
Russian Federation	1
Ukraine	1
Total	188

24 October:

Country	Entries
Denmark	36
Finland	35
Norway	26
Switzerland	15
France	14
Great Britain	10
Czech Republic	7
Italy	6
Poland	5
Germany	4
Turkey	4
Belgium	3
Sweden	3
Austria	2
Japan	2
Latvia	2
Croatia	1
Ireland	1
Lithuania	1
Russian Federation	1
Ukraine	1
Total	179

22.10.2021: Version 2

- Jury member added (page 1).
- Changes in general start procedure: EmiTags will be checked at Quarantine check-out when leaving the Quarantine. EmiTags shall be cleared in the start boxes, not in the Quarantine (page 3).
- No GPS tracking in the two qualification races (page 3).
- Time keeping at heats for non-qualified athletes (page 14).