



Common waxing protocol for IBU Events

(Version 2025-26.1 additions/adjustments to version 2024-25 are highlighted in blue)

Scope: IBU Junior Cup, JOECH, YJWCH, Regional Events, YOG, EYOF

Common waxing process

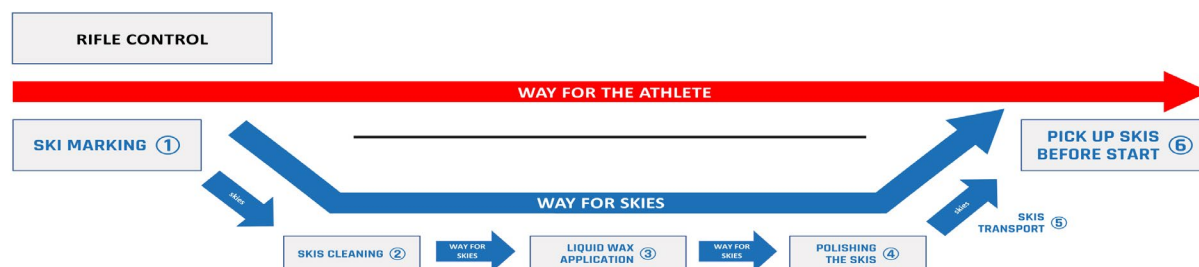
The Common waxing process takes place the day before the planned start, unless weather conditions are so severe that the process needs to be carried out at the appropriate time on the day of the start. The Common waxing time will be included in the Day-by-Day Competition Schedule. This also means that by that time, after the start lists are announced, the marked skis must be delivered. Technical staff from eight different teams will be appointed in advance for each day of this process to carry out the Common waxing.

Common waxing station (CW)

The process will happen in the **Wax station** which can be located close to the start area together with a material control station (tunnel, double containers, garage or another dedicated place). Appropriate space of at least 45m² must be available.

The place needs to be organized with 6-8 separate stations, each equipped with dedicated equipment and staff. **IBU will provide the equipment and the materials for the Common waxing.**

The process will be coordinated by IBU responsible Referee in close cooperation with **appointed** Technicians/Coaches from different Teams.



1. Ski marking and spot check (2 dedicated persons)

Skis must be delivered to the CW station in accordance with the agreed schedule, aligned with the time required for ski preparation (either by the athlete or team staff) and placed in the dedicated ski stand.

Skis need to be received, marked by marker or sticker with the bib number of the athlete on.

Stickers can be handed out before the race in efficient way (separate envelope, box). Technicians are responsible for attaching the appropriate sticker to the skis on vertical position in the area behind the binding.

Ski surface needs to be cleaned from all sides to reduce contamination risk.

1.1 Spot checks:

Randomly chosen skis might be tested by FTIR methods to exclude unauthorized material containing fluor (one ski from each pair will be tested in 3 randomly chosen points on the ski base according to the IBU test protocol).

When the skis pass the control successfully, they will be placed back in the ski stand. If the ski fail at the check, they will not be placed in the ski stand or ski holder but marked and returned to the team.



It will be possible to replace "fail skis" one time for each Athlete during competition week (or after appropriate cleaning by team technician).

A responsible member of each NF should wait near the station so that he/she will be informed immediately about a failed ski. In case a team member is not present, information will be forwarded by radio to TD or RD and then to the Team Coach at the shooting range.

The results of the tests are final and not subject to protest.

Test of the ski and ski transport must be conducted in such a way that no contamination occurs by the operators, volunteers, or OC side.

Measuring procedure

- 0-1 GREEN, move to next point, up to three points
- 1.1-1.8 YELLOW but remeasure without moving the instrument if 1.81 RED, Green means green point, red means red point.
- > 1.0+ RED but remeasure without moving the instrument if <1 GREEN, if >1 RED, Green means green point, red means red point.

Threshold zones

Threshold zones are based on the current IBU/FIS calibration model for Alpha II and may change after it is updated. Information about changes will be officially announced before the intended implementation.

The same limits apply before and after the race.

Threshold zones	
0-1	>1,0

2. Ski cleaning (2-4 Technicians)

Depending on the number of Competitors, cleaning will be performed by two or four Technicians as follows:

- application of a wax remover onto the ski base using a sponge applicator
- brushed by a soft steel roto brush **two times (start from the back, to the tip, and back again)**
- clean the ski base with paper pressed down by a hand brush
- left to dry

3. Wax application (2 Technicians)

Before applying the wax, brush the ski base with a hand metal brush, and then wipe the base clean.

Dedicated wax will be applied to the ski base. Afterwards, they will be left to dry according to the producer's recommendation.

Two Technicians will perform the wax application.

4. Ski polishing

Ski will be polished by dedicated tools: roto brush or roto wool. After wiped by special fabric.

Ski polishing will be performed by two Technicians.

5. Ski transport (2-4 Volunteers)

Depending on wax station location – skis will be transported by volunteers in ski holders or directly placed in a dedicated place close to the start area.

Skis must be in the "Start" ski stand at least 10 minutes before the start.

6. Pick up the ski by Athlete (1 dedicated person - the same which was responsible for marking)



Skis will be picked up from the ski racks directly by athletes only (not by team staff/not handed over by officials) before the start when entering the start zone.

Single Mixed Relay

In Single Mixed Relay Competitions athletes can only use one pair of skis. Rewaxing in between changes is not allowed.

Ski Test after the race

Randomly chosen skis will be tested by FTIR methods after each race according to ECR 4.2.3. The skis will be taken by the IBU official and/or the designated volunteers in the finish area and brought to the test station. At least one ski from each pair will be tested in 2 randomly chosen points on the ski base according test procedure.

The skis can be picked up at the test station by the competitors or team member 15 minutes after the finish, but not later than 20 minutes after the end of the competition.

The "venue contamination factor" (vcf) will be added if for the majority of the ski's contamination is noticed. The "vcf" will be re-evaluated by the reference skis as defined below.

Fluor Contamination risk/reference skis

A separate set of skis will be designed for testing any possible fluor contamination (venue contamination factor) before and during competition day.

Data from after race test will be collected for research purposes and for possible decisions. _

Reserve Ski

Reserve ski does not need to be tested before the race, in case of used- they will be checked after the competition.

Ski preparation by Teams during Junior Cup, JOECH, YJWCH, Regional Events, EYOF, YOG:

Not allowed to be used:

- a. Any kind of carbon-fluorine containing waxes
- b. High-performance waxes (e.g., powder, top finish liquid etc.)

Allowed to be used:

- a. Only base Fluor Free waxes officially supplied by the IBU (except Regional Events)
- b. Manual structure

Not allowed to be used:

Any kind of products containing fluorocarbons [or any other waxes than those supplied by IBU](#).

Accepted waxing methods:

Liquid wax application

Hot waxing

Cold wax application by roto wool

Spot checks in wax cabins

In order to permanently monitor which products are used for ski-preparation, IBU officials can carry out spot checks in the wax cabins where also ski and wax-samples are taken.

Team sanctions

An NF whose athletes have violated Annex A Art. 1.3 of the ECR (red ski) multiple times may receive fines or may even be suspended for one or more IBU competitions according to ECR 11.5.4 and 11.6