



SINGAPORE CANOE FEDERATION

SCF Canoe Slalom Ranking System

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1. Purpose

The Singapore Canoe Slalom Ranking system is used to rank athletes based on their race performance across recognised Singapore Canoe Slalom ranking events.

The system is adapted from the ICF Canoe Slalom Ranking Points calculation, with adjustments made for local races, smaller athlete pools, and direct final race formats.

Lower ranking points represent a better result.

2. General Principle

Ranking Points are calculated based on the Athlete Total Time compared against the Leader Total Time in the same event and race phase.

3. SCF Canoe Slalom Ranking List

The SCF Canoe Slalom Ranking List is established by taking the average of the best 5 SCF Ranking Points achieved by any competitor participating in the SCF Canoe Slalom Ranking Series of events.

Events included in the calculation of the SCF Canoe Slalom Ranking span a two-year period. Therefore, all races in the two-year period directly before the relevant release date are considered and the best 5 counted for each Athlete's ranking.

Athletes having 5 or more results, whilst still averaging the best 5 results, are ranked above all Athletes having only 4 results; those with only 4 results are ranked above those with 3 results. Athletes with 3 results are ranked above Athletes with 2 results and Athletes with 1 result are ranked at the bottom of the list.

4. General Formula

$$\text{Ranking Points} = \text{Phase Offset} \frac{\text{Phase Factor} \times \text{Athlete Total Time}}{\text{Leader Total Time}} - \text{Phase Factor} + \text{Quality Factor}$$

4.1. Athlete Total Time

Athlete Total Time: Result of the boat in seconds

4.2. Leader Total Time

Leader Total Time: Result of the fastest boat in that phase in seconds

4.3. Phase Offset

PHASE	PHASE OFFSET
Finals/ Direct Finals	0
Semi Finals	10
Heats	20

4.4. Phase Factor

Phase Factor will be updated based on the national playing field and standards.

The Phase Factor shall be 100 unless otherwise stated in the competition.

4.5. Quality Factor

- SCF Championships

For SCF Championships, the quality factor shall be 0

- SCF Cups + Other Ranking Races

The Quality Factor is determined by taking the top five (5) ranked athletes from the SCF CSL Ranking list who are participating in the race. Their respective SCF Ranking points are then averaged to establish the specific Quality Factor for that event.

Any boat recorded as a DNS, DNF, DSQ, DQB for their final runs will be excluded from the Quality Factor computation.

5. Sample Calculation of Ranking Points

5.1. Example 1

- Competition Phase → Final, therefore **Phase Offset** = 0,
- **PhaseFactor** = 100
- Competition is a Championships, therefore **Quality Factor** = 0
- Boat 1 score = 89.60 seconds
- Boat 2 score = 90.82 seconds
- Boat 3 score = 141.91 seconds

*Points for Boat 1 (winner of finals) = $0 + ((100 * 89.6) / 89.6) - 100 + 0 = 0.00$*

*Points for Boat 2 = $0 + ((100 * 90.82) / 89.6) - 100 + 0 = 1.36$*

*Points for Boat 3 = $0 + ((100 * 141.91) / 89.6) - 100 + 0 = 58.38$*



5.2. Example 2

- Competition Phase → Semi Finals therefore **Phase Offset** = 10,
- **PhaseFactor** = 100
- Competition is a Ranking Race, therefore **QualityFactor** is calculated using the top (5) ranked athletes

Athlete A Ranking Points = 0.00

Athlete B Ranking Points = 1.36

Athlete C Ranking Points = 8.45

Athlete D Ranking Points = 12.80

Athlete E Ranking Points = 15.25

QualityFactor = $(0.00 + 1.36 + 8.45 + 12.80 + 15.25) / 5 = 7.57$

- Boat 1 score = 89.60 seconds (Semi Finals Timing)
- Boat 13 score = 119.50 seconds
- Boat 14 score = 141.91 seconds

*Points for Boat 13 = $10 + ((100 * 119.50) / 89.60) - 100 + 7.57 = 50.94$*

*Points for Boat 14 = $10 + ((100 * 141.91) / 89.60) - 100 + 7.57 = 75.95$*

6. Clarification

6.1. For the development of the sport, where an athlete is recorded as DNF because the athlete exits the boat, the athlete's timing shall stop at the moment the athlete is out of the boat.

6.2. Any remaining gate that the athlete has failed to complete shall be recorded as a missed gate, and a 50-second penalty shall be added per missed gate to the athlete's overall timing.

6.3. This clarification is applied to support the growth and development of canoe slalom by recognising partial course completion while still applying standard missed-gate penalties. When this developmental provision is no longer required, this clarification may be removed without affecting the main ranking formula.

7. Enquiries

7.1 For enquiries, please email: canoeslalom@scf.org.sg