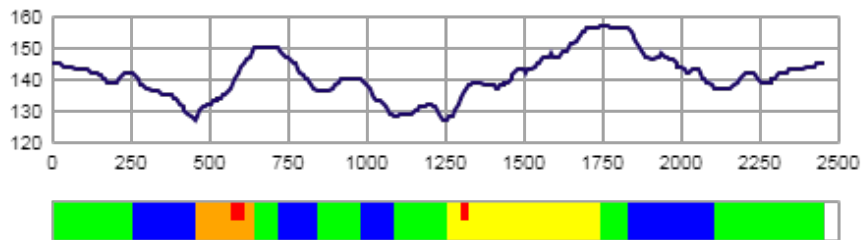




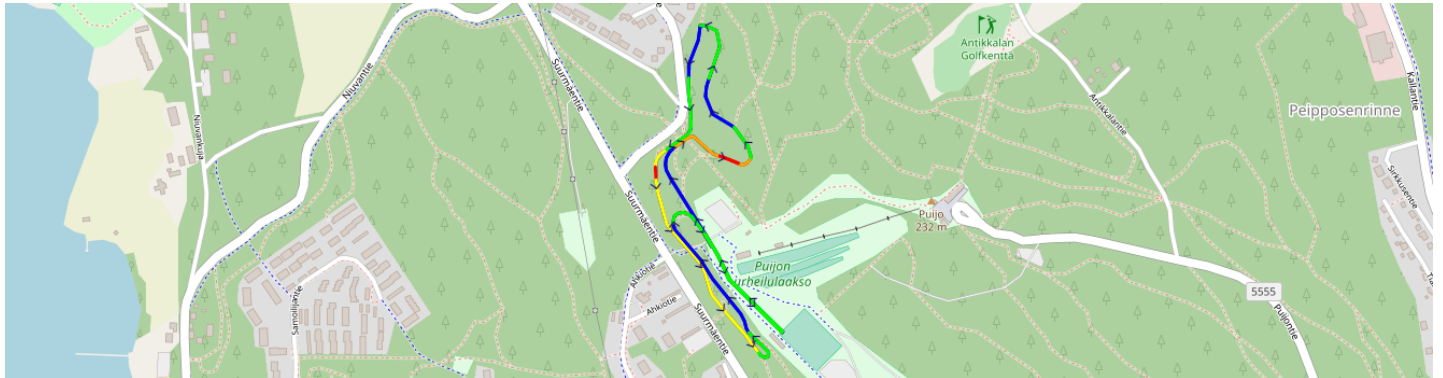
**CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE**

- | | |
|---|-------------------------|
| (1) Registration number: | |
| (2) Name of the competition site: | Puijo |
| (3) Name of city/region: | Kuopio |
| (4) Organizer: | Puijon Hiihtoseura |
| (5) National ski association: | Finnish Ski Association |
| (6) Contact person in the organizing committee: | Timo Reijonen |
| (7) Homologation inspector: | Juha Torvikoski |
| (8) Name of course: | Puijo 2.5 km |
| (9) Competition level for course: | COC |

Course length:	2,458m	Height difference (HD):	30m	Lowest point:	127m
Course category:	D	Maximum climb (MC):	34m	Highest point:	157m
		Total climb (TC):	82m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

FIS Stamp

FIS Homologation
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	34	41.5
- shorter climbs	1	23	28.0
- steep climbs	2	0	0.0
- descents	4	3	3.7
- undulated terrain	7	22	26.8

(11) Stadium area:

		Indoor working room:	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		
Skitesting area along course/near stadium	yes		
Warm up track near the stadium	yes		

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes		yes	yes
Course suitable for following competition formats with					
a) Classical technique	yes			yes	yes
b) Free technique	yes			yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Yes

(14) Map Material:

Good

(15) Source of accurate elevation data:

Based on City of Kuopio and National Land Survey of Finland survey

(16) Safety considerations:

The course is safe. Downhills are fast.

(17) General remarks:

(18) Date of first inspection: 2018/12/7

(19) Date of final inspection: 2018/12/10

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	1,258	30	34	-19.9 - 27.9	6.2	C at 1,302m, PTC: 4m, 19.0%
	total			34			41.5% part of TC
B-climb	1	456	23	23	8.5 - 31.5	12.2	C at 571m, PTC: 8m, 20.0%
	total			23			28.0% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			22			26.8% part of TC
	total climb			82			