USATF ROAD RUNNING TECHNICAL COUNCIL APPLICATION FORMS FOR COURSE CERTIFICATION

Table of Contents

Steel Taping Data Sheet	2
Application for Certification of Calibration Course	3
Bicycle Calibration Data Sheet	4
Course Measurement Data Sheet	5
Application for Certification of a Road Course	6-8

This document contains all the forms you'll need to apply for USATF/RRTC course certification. The above table of contents can help you print only the pages containing the forms needed on a particular occasion. For example, if you're just measuring a calibration course, you'll need the Steel Taping Data Sheet and the Application for Certification of Calibration Course (pages 2-3). If you already have a calibration course and you're just measuring a road course, you'll need the Bicycle Calibration Data Sheet, Course Measurement Data Sheet, and Application for Certification of a Road Course (pages 4-8).

These forms should be sent to the **RRTC Course Certifier** in your State. The current list of certifiers can be found on the RRTC website.

You'll probably have to send a **processing fee** along with your application. These fees vary from State to State, so we can't tell you how much to send. Check with your Certifier to determine the proper fee **before** sending in the application! (Note: there is no fee for certifying a calibration course.)

Date of this revision: June 14, 2015

STEEL TAPING DATA SHEET (for measuring a calibration course or track)

Na	ame of Calibrat	ion Course				
Ci	ty and State			Date		
	Start Time	Fir	nish Time			
	Pavement Ten (Thermometer	nperature: Start shaded from direct s	Finishsun)	Average		
M	easurements a	nd Calculations:				
1.	changed until	the final adjustment o				
	# tape lengths	distance per tape length	partial tape length	measure	d distance	
2.	points marked	in the first measurer	s the distance between ment, but use new inte	ermediate taping p	oints.	
	# tape	distance per tape length	partial tape length	measure	d distance	
	Note: Tape me course). If not,	easurements should do more measurem	agree within 0.01% (fents until agreement a	or example, 3 cm at this level is obta	for a 300 meter ined.	
3.	Average Raw	(uncorrected) Measu	rement of Course			
4.	Temperature Correction. Use the average pavement temperature during measurement in whichever formula is appropriate (for Celsius or Fahrenheit temperature). Work out answer to at least seven digits beyond the decimal point.					
	Correction factorisection factorisec	$tor = ([Temp(^{\circ})]$	C) - 20] × .0000 F) - 68] × .0000	0116) + 1 00645) + 1	.0000000 .000000	
		-	0 °C (68 °F), factor is 0 °C (68 °F), factor is			
5.	Multiply the ter (line 3)	mperature correction	factor by the average	raw measuremer	nt of the course	
	correction	x avg.	raw measurement	corrected r	measurement	
6.	(not applicable odd-distance o	e if measuring a track calibration course wh	e course to obtain an ox). This is not necessa ose endpoints are pre epaving. If you adjusto	ry as you may cho e-existing permane	pose instead to use arent objects in the road	
	Final Adjusted	Length of Calibratio	n Course			
	CONVERSION	300	ot = 0.3048 meters meters = 984.25 fee ometer = 1000 mete		t	

APPLICATION FOR CERTIFICATION OF CALIBRATION COURSE

1.	Name of 0	Calibration Course				
2.	Length of Calibration Course					
3.	City and S	State	 			
4.	Date(s) M	leasured				
5.	Method U	sed to Measure C	alibration Course			
6.	How man	y times did you me	easure the calibration	course? _		
7.	Measuring	g Team Leader:	(1)		, (Telephone #)	
			(Name)		(Telephone #)	
		(Addres	s)		(E-mail address)	
8.	List Name	es and Duties of To	eam Members:			
9.	cross stre				f north, the name of the road (and relevant nts, including taped distances from nearby	
10.	Is this cal	ibration course: S	TRAIGHT?		PAVED?	
11.	How are t	he start and finish	points marked?			
12.	2. Are the start and finish points located in the road where a bicycle wheel can touch them or elsewhere?					
13.	Approxim	ate altitude of calil	oration course (meters	s or feet – s	specify which)	
			nt way (concrete or le many courses. TAk		Paint will fade. The calibration course, once IT!	
14.	sheet the person op	exact procedures	used, the make and r	nodel of the	nce Meter (EDM), describe on a separate e EDM device, and the qualifications of the also include a copy of the original field note	
15.	. If the calibration course was measured by steel tape , fill out a copy of the steel taping data sheet and complete the following:					
16.	. How much tension (force) was applied to the tape while measuring?					
17.	How was this tension maintained?					
18.	. Was the tape free of any kinks, crimps or splices?					
19.	Bicycle Check. This is a check against miscounting the number of tape lengths. (If you used a gross measurement check other than a bicycle, please explain.)					
	A.	Counts for full ca	libration course	-		
	B.	Counts for one ta	pe length	-		
	C.	Divide A by B		-		
	D.	Number of full tap	oe lengths	_		

BICYCLE CALIBRATION DATA SHEET

Dat	te of Meas	surement			
Naı	me of Mea	asurer			
Ler	ngth of cal	ibration course _			
1.	Ride the	calibration course	e 4 times, recording	data as follows:	
	<u>Ride</u>	Start Count	Finish Count	<u>Difference</u>	
					Pre-measurement Average Count
					Time of Day
					Temperature
					Note: The spread shouldn't exceed 2 to 3 counts for riding <u>each direction</u> of the calibration course.
WC			nber of counts in one lied by 1.001 "safet		ile, calculated from Pre-measurement
	Working	Constant =			
3.		arse Measureme ate the bicycle by Start Count		n course 4 times, rec <u>Difference</u>	Post-measurement Average Count
					Time of Day
					Temperature
					Note: The spread shouldn't exceed 2 to 3 counts for riding <u>each direction</u> of the calibration course.
FIN			r of counts in one kil lied by 1.001 "safet		calculated from Post-measurement
	Finish C	onstant =			
CO	NICTANIT	EOD THE DAY -	Either the Werking	Constant or the Fini	sh Constant, whichever is the larger*.
CO					
	measure	as much as you	want in a day, just s	o calibration precede	wed by a calibration run. You may as and follows it in the same 24 hour are from thermal expansion and slow

CONVERSION FACTOR: 1 mile = 1.609344 kilometers

leakage. Frequent calibration "protects" the previous measurement. A smart measurer will recalibrate

frequently—you never know when a flat tire is coming!

^{*} You may, if you wish, define your "Constant for the Day" as the *average* of Working and Finish constant instead of the larger. However, if you use the average, you will produce a shorter race course, which will face a greater risk of being found short if it ever needs to be verified. Therefore, use of the **larger** constant is strongly recommended.

COURSE MEASUREMENT DATA SHEET

Name of Course or Ra	ace Name					
Name of Measurer for	ride #1			Workin	g Constant #	1
Date St	art: Time _			Tempe	rature	
Fi	nish: Time _			Tempe	rature	
Name of Measurer for	ride #2			Workin	g Constant #	2
Date St	art: Time _			Tempe	rature	
Fi	nish: Time _			Tempe	rature	
	d ride to recor	d counts a or Measure	t those sa		o not lay out	ts and all intermediate split a second set of marks! for Measurement #2 rded Interval
Preliminary Course Length Measurement #1	start-to cou		divide by /	working constant	=	measured length
			,		_ -	
Measurement #2			/	N/	_ =	
Difference between lengths #1 and #2	divide by	length #1			rement compa ss than 0.0008	
	_ /			=		() [yes or no]
0.08%. If the two preli go to the calibration co	minary measu ourse and rec ants for the D recalculate the	rements d alibrate. ay (for meane length o -finish	o not agre	ee to within 0. It #1 or #2) is se here: constant	08%, someth	y should agree to within ing is wrong. Fix it! Then as the Working Constant length of course
Measurement #1			-	-	_ =	
Measurement #2						
The length of the race	course is the	lesser of t				
Measured course leng	thd or subtract			Desired cour	se length	gth to the same value as
						nts (start, finish, turn-aroun y to make this totally clear.

Note: you need not adjust intermediate split points unless certification is desired for those points as well. Did you adjust the intermediate points and, if so, how?

APPLICATION FOR CERTIFICATION OF A ROAD COURSE The Calibrated Bicycle Method

1.	Name this Course will be Kn	own By			
2.	Advertised Race Distance _	Race Date			
3.	Location of Start		Finish (if different)		
	C	ity, State		(City, State
4.	Measurer Contact Info (must	be someone who	actually rode the bike):		
	(Name)	(Address)	(Zip)	((Telephone)
	(E-mail address)			_	
5.	Race Contact (if course is m	easured for a spec	ific race):		
				_ (
	(Name)	(Address)	(Zip)	·) (Telephone)
	(E-mail address)			_	
6.	If this course replaces an old longer usable as certified, pl				
CAI	LIBRATION OF BICYCLE				
7.	Did you calibrate the bicycle	on a previously ce	rtified calibration course?		(YES or NO)
	If YES, please enter the calibate a copy of the certificate and If NO, you must enclose an A	map verifying RRT	C certification of the calibration	on cou	or enclose
8	Is your bicycle calibration of	• •			(YES or NO)
	Did you include the factor of		(YES or NO)		
	MMARY OF MEASUREMEN	·			(
	Date(s) of measurements				
	How many measurements of				
	Name(s) of measurer(s)				
	Exact length of course				
	Difference between longest a				
	Which measurement was us				
40			1 . 10		(VEQ - NO)
	Is your course measuremen		ned?		(YES or NO)
СО	URSE LAYOUT AND MARKI	NG			
17.	Is your course map attache	d?			(YES or NO)
	NOTE: The course map nee and fit on 8.5x11 paper. Des relative to permanent landma cones and monitors are requ	criptions of the exa arks must be includ	ict positions of the start , fini led on the map. Details of an	sh , an y restr	d all turn-arounds icted portions where

18. List all intermediate **splits** (attach list describing the position of each relative to permanent landmarks).

APPLICATION FOR CERTIFICATION OF A ROAD COURSE The Calibrated Bicycle Method (continued)

19.	How far from the curb (edge of pavement) did you measure on curves?				
20.	How much road width is available to runners throughout the length of the course?				
21.	If your course contains pairs of opposite turns (right-to-left or left-to-right), did you follow the shortest				
		_(YES or NO)			
	Be sure your map shows the exact measured path.				
22.	Does your course contain any turn-around (double-back) points?	_(YES or NO)			
23.	Does your course include any winding or "S" curved sections?	_(YES or NO)			
24.	Did you measure an unrestricted route? Do the runners have use of the entire road, from	curb to curb? _(YES or NO)			
	If your course requires cones or barriers to keep runners on the proper route, be sure your their exact locations, just as you would locate the start and finish.	_ ·			
25.	Type of coures (check one):				
	one loop time(s) same out/back time(s)				
	figure-8 time(s) several out/back sections				
	partial loop keyhole (out/loop/back)				
	complex of different loops point-to-point				
26.	Straight-Line Distance (as the crow flies) between Start and Finish				
	Altitude of Race Course above mean sea level (meters or feet – please specify which!):				
	start finish highest lowest				
28.	Type of surface (give percentages):				
	paved grass				
	dirttrack				
	gravel				
	If your course includes any unpaved sections, please attach a detail of the method(s) used such sections.	to measure			
29.	Have you included your start, finish and turn-around (if applicable) diagrams on your map?	_(YES or NO)			
30.	How did you mark the start and finish points (and turn-around points)?				
31.	Did the same person ride the bicycle on both the calibration course and the race course fo measurement?	, -			
32.	Describe weather conditions during the calibration and measurement rides:	_(YES or NO)			
33.	Did you perform both the pre-measurement and post-measurement calibrations and the m the race course on the same day?				
		(YES or NO)			

APPLICATION FOR CERTIFICATION OF A ROAD COURSE The Calibrated Bicycle Method (continued)

34. Provide an overview below of the processes and procedures you followed when undertaking this measurement.

(Here, you can describe any special circumstances that may help a certifier to understand what you did. Examples include portions of the course measured on different days or in different directions, needs for offsetting on parts of the course, etc. Your description may be short and sweet or as detailed as you wish. You may attach additional sheets if necessary.)