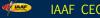
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Race Walking Technique 1



Race Walking is the agonistic expression of the brisk, or better, fast walking:

- · From a biomechanics view, it's a complex movement
- \cdot It's fixed by the strictly observance of rules
- A correct race walking technique permits to improve the performance



Technical Model of Race Walking

WHY IS NECESSARY A CORRECT RACE WALKING TECHNIQUE ? Race Walking is a technical discipline:

- Learning of a correct race walking technique is a fundamental prerequisite to develop and to get top-level performance
- A correct race walking technique permits to integrate physiological aspects with energy cost (economy race walking)

Technique Violations



Loss of contact

"Race Walking is a progression of steps so taken that the walker makes contact with the ground, so that no visible (to the human eye) loss of contact occurs"

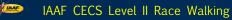
- IAAF Handbook [Rule 230]



Bent knee

"The advancing leg shall be straightened (I.e not bent at the knee) from the moment of first contact with the ground until the vertical upright position"

- IAAF Handbook [Rule 230]



Inefficient Technique

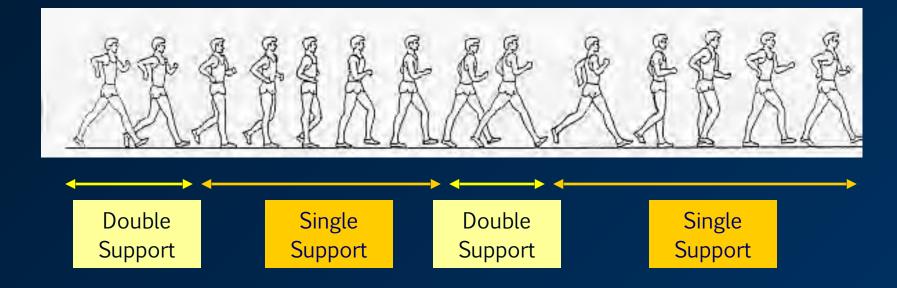
Inefficient technique depends on:

- Poor neuromuscular coordination
- Dominance of muscular districts causes inefficacy
- · Inadequate flexibility

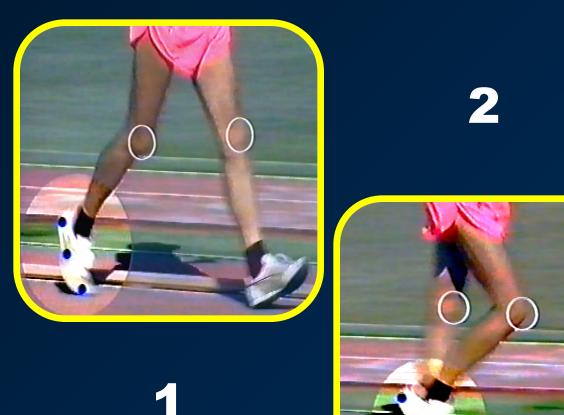
reflect unfavourable biomechanics

Race Walking

Sequence

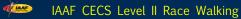


Sequence with knee movement

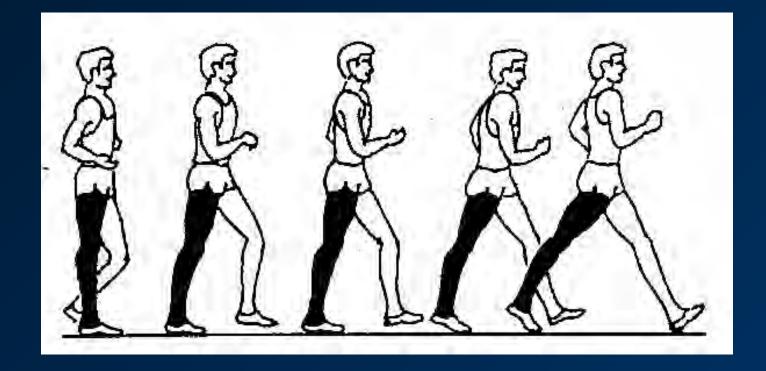




3



Single Support Phase Rear Support



Rear support and push off



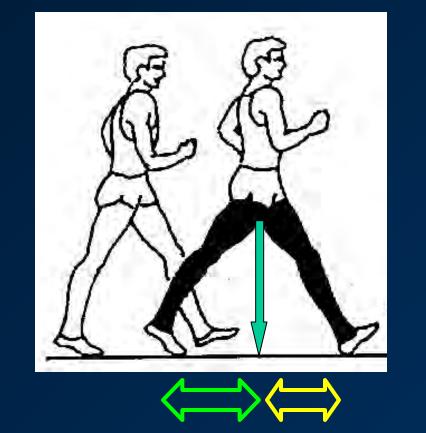
2



Rear Support Phase

Purpose and function	Major characteristics and focus of observation
	 Intensive and progressive rolling movement over the outside edge of the support foot
driving force for	 Intensive push-off action of support foot with forceful plantar flexion
forward locomotion	 Support leg must remain extended from the vertical to the push-off of the ball of the foot
	 A complete push-off transmits more velocity and stride lenght
	 Leg action supported by an harmonious action of arms, hips and trunk

Double Support Phase





Double support phase





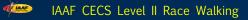


Double Support Phase

Purpose and function	Major characteristics and focus of observation
• To link finishing push-off	
phase with ground contact of	\cdot Shoulder and hip axis are
lead foot minimizing loss of	torqued relative to each other.
forward velocity: part of the	Mind that it mustn't be a
step becoming from the push-	crossover: this torsion should
off must be increased	not be exaggerated.
• To meet the requirement of	 Intensive (but not
the rules for unbroken contact	exaggerated) arm action
with the ground	

Front support phase



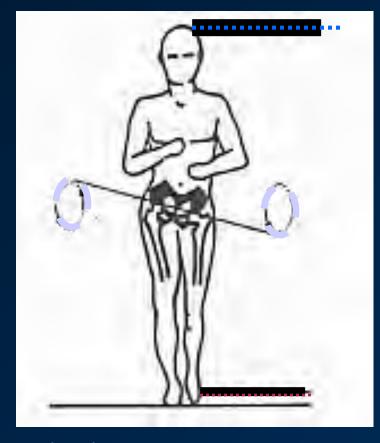


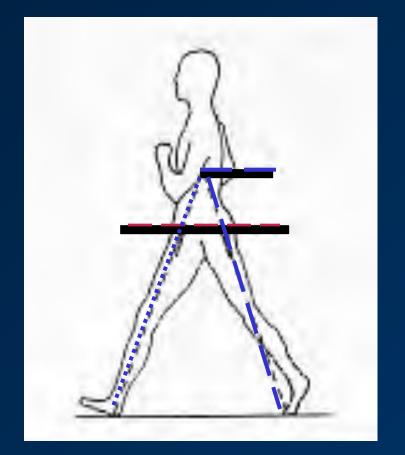
Front Support Phase

Purpose and function	Major characteristics and focus of observation
weight at foot touchdown with minimal breaking	 Gentle but good visible heel touchdown with leg completely extended Foot rolling forward over outside edge. Avoid bracing action whilst doing so: oblique position of the lead arm The FSP begin with the heel strike of the front leg and it ends when the leg is vertical below the centre of gravity. Brief double contact as lead foot touches ground just before back foot pushed off.



Hip Movement in Race Walking

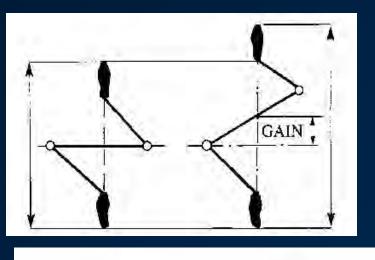


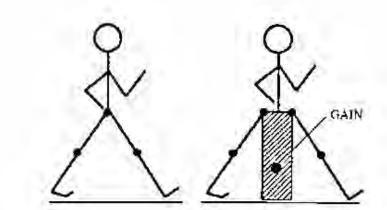


Jonath et.al. 1995



Race Walking Hip Action





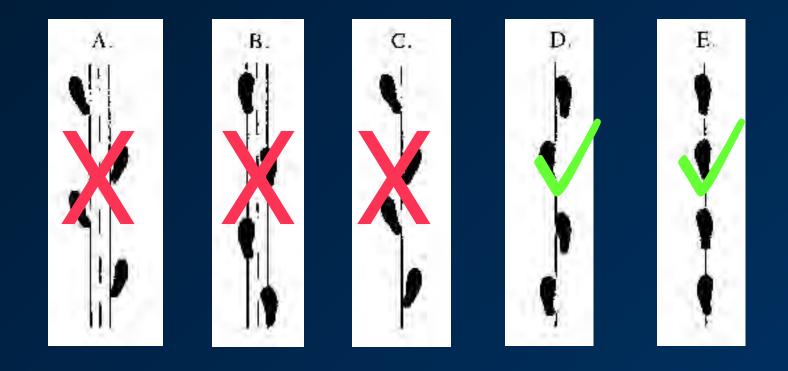
During hip motion

The centre of gravity position during RW should remain at the same level. Technics allow to reduce mostly vertical oscillations

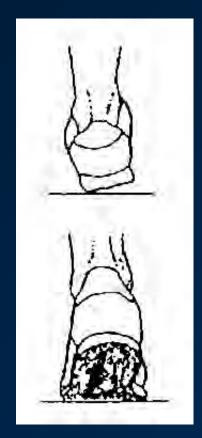


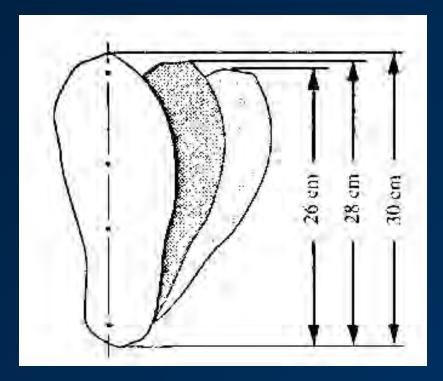
Race Walking

Foot Placement



Race Walking Foot Placement



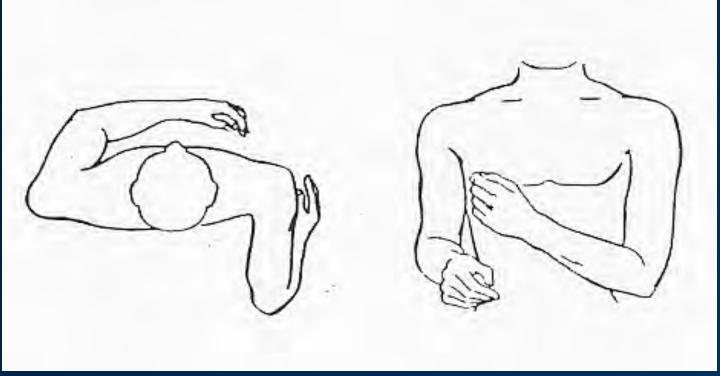


Race Walking

Arm Movement

Support movement to maintain and help the locomotion. Pay attention that hip side don't be hardened in the back, neither in the front.

Harmonic oscillations are secondary movements.



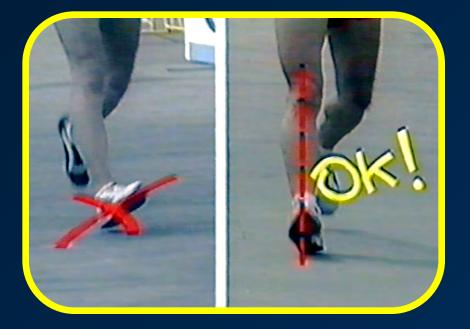
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Race Walking Technique 2



Correctness and errors

Front support





Contact with

Correctness and errors

Front leg





Push-off back

Inefficient Technique - 1

- Too much knee lift with result of a reduction of the capacity to have a grazing advancement (preservation of horizontal speed)
- · Backward lean leads to shorter stride length
- Interruption of the line "trunk-pelvis-pushing leg": loss of speed and lower check-up of relevant technical action – prevent an harmonious action of hips and the preservation of horizontal (speed) advancement

Inefficient Technique - 2

- Lateral hip sway causes reduction in stride length
- High and tensed shoulders leads to a bouncing step and loss of ground contact
- Very short steps, caused by early lift of rear foot – The effect is an emphasized no contact phase

Practical suggestions for Coaches

- It's impossible the diffusion and the development of Race Walking without Coaches & Judges
- The race walker can't train himself without the technical guide of a coach
- Coach have to give simple technical indication
- Use intellegible language
- One correction (adjustement) at a time
- Use the audio-visual media as a supplementary way to correct and support the technical action

Take Home Messages (1)

- · Continuos contact with the ground
- · Double contact clearly visible (to the human eye)
- Support leg should be straightened from the moment of the first contact with the ground until the vertical upright position
- · Emphasize the push off phase
- \cdot Grazing step
- Right stride (correlated to the anthropometry of the athlete, his/her speed, his/her tecnhical "maturity")
- Harmonious movements of arms, shoulder and trunk

Take Home Messages (2)

- · Rotations of the hips
- · Upright trunk
- Relaxed head position
- The advancing leg makes contact with the ground not too far from the perpendicular projection of the centre of gravity
- Progressive foot approaching to the ground
- · Complete push-off

IAAF Level II Race Walking Judges Course

Application of Competition Rules Race Walking –Rule 230



To have a clear understanding and widespread knowledge of Race Walking as relevant to IAAF Competition Rules

Structure of the rule 230 1st - Definition

Consider the two principles

Continual contact with the ground (ie: loss of contact)

٠

To straighten the knee at first contact with the ground (ie: bend knee)

Nomination of the Chief Judge

No. of Judges needed in a competition

Chief Judge Deputy

Recorder

Structure of the rule 230b 3rd - Protest

When an athlete can make an appeal

Notification of the appeal to the Chief Judge





Structure of the rule 230b 4th – Warning & Disqualification

- · When an athlete has received red cards
- Information to the athlete ("Warning Posting Board")
- \cdot When an athlete is disqualified
- · Process of disqualification

Structure of the rule 230b 5th – Start

Organisational process of the start

· Gun signal

· Standard orders (Rule 162.3)

 Pre call in the case of large number of athletes Structure of the rule 230 6th – Safety & Medical

Obligations of the organiser with regard to the safety of the athletes and officials

- Roads closed for traffic
- · Start and finish within daylight
- Presence of medical staff
- · Operational effectiveness of safety judge

Structure of the rule 230b 7th – Drinking/Sponging & Refreshment

Organisational process of the

- · Drinking / Sponging
- Refreshments

· Handling of the personal refreshments

Structure of the rule 230b 8th – Course and Measurement

Minimum and maximum measurements of the

road course



Reminder of the Rule 240.3 and its criteria for measurements

Structure of the rule 230 9th – Race conduct

•Formalities when leaving the course temporarily

•Transponder: see Rule 240.10

Other technical Rules

- · International Walking Judges (Rule 116)
- · Referees (Rule 125)
- Umpires (Running & Race Walking events Rule 127)
- · Lap Scorers (Rule 131)
- · Clothing & Numbers (Rule 143)
- World records (Rule 260)

IAAF Level II Race Walking Judges Course

Interpretation of the rule – Part 1



Objective

• To be able to <u>react</u> in unusual situations appropriately

 To be able to <u>interpret</u> the Competition Rules as they are meant to be understood



Factors influencing the interpretation of the rule

- Rule 230 is clear enough but its application may depend on <u>external factors</u>
- · Type of course
- · Type of event
 - individuals (World, Olympics)
 - by team (World Cup, others)
- \cdot Understanding of the rules by the athlete
- · Weather condition



Application of Walking Rule

When to show a yellow card/paddle to the athlete (caution)

- for loss of contact
- for bent knee



When to fill out the **Red Card** (previous warning)

- Red Card for loss of contact
- Red Card for bent knee



Red Card Prerequisites



1. The infringement must be observed by the human eye

2. When the athlete is taking an advantage





Caution or Warning?



Reasons for Caution



Allow the athlete to correct himself

The caution is the only help allowed for the athlete



Red Card

Red Card is the one determining disqualification of the athlete (namely the 3rd one)

Red Card is the "last final decision" not a "first instinctive reaction"

Red Card is given when the athlete continues to break the rules of race walking.

Red Cardneed as fundamental requisite for decisionabsolute certainty



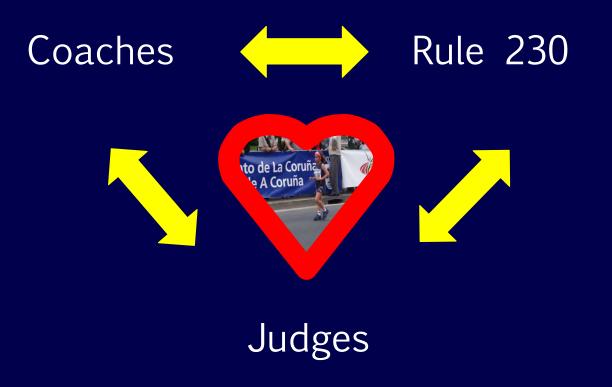
Could we ever improve judging ?

Yes, but we ought to consider <u>the walker at the center</u> of all the world of Race Walking.





Could we ever improve judging ? Yes, but we need the help from all the world of Race Walking





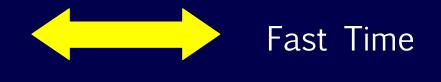


- \cdot Consistency in both style and criteria
- · Consistency in all aspects of judging
 - Showing paddle in professional manner
 - Documentation
 - Interpretation of the rules
 - Dealing with athletes

Goal & Consitency

Our future most important goal is to have consistent judging

Correct disqualifications





IAAF Level II Race Walking Judges Course

Interpretation of the rule – Part 2





\cdot To be able to react in unusual situations

To be able to interpret the Competition Rules correctly



Correct position of the judge

Position which present a clear viewing of the legs of competitors



On track

Outside lane where the raised inner kerb will not block the view of the competitor's feet



Correct position of the judge

Position which present a clear viewing of the legs of competitors



On road

- Clearly see the contact with the surface of the road
- Look at the competitors from an angle of 45° when he/she is moving towards the Judge



During the acceleration at the start

While passing another walker





During the finishing sprint

In the middle of the group





Turn arounds, and narrow courses









Sharp turns

Aid and refreshment areas







Other difficult situations

- · Large number of competitors
- · Mixed events (men and women)
- \cdot Mixed events (seniors and juniors)
- \cdot (Circuit) to the stadium
- · Last lap on track events

IAAF Level II Race Walking Judges Course

Competition Management – Part 1





To identify the duties of the competition personnel <u>before, during and after</u> a competition

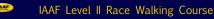


Walking officials

- · Chief Judge
- Walking Judges
- · Deputy Chief Judge
- · Recorder
- · Posting Warning Board assistant

Chief Judge - Most important duties (1)

- Conduct a pre-race meeting to assign the Judges to their respective judging areas and to explain the judging procedure to be used
- Make sure all the judges have all the necessary judging material including:
 - warning cards
 - record cards
 - Paddles
 - course map showing each judge's assigned position list of starters' numbers
 - arm bands etc.



Chief Judge - Most important duties (2)

- Make sure that the card collecting system is correctly prepared
- Notify competitors of their disqualification as soon as possible after verifying that three red cards from three separate judges have been received, and inform the referee after the event
- Sign the judging summary sheet and check with the event Referee to ensure that the official results are correct
- Conduct a post-race meeting to review the race, present the judging summary sheets for analysis and discuss any problems



Judges - Most important duties

- · Participate at pre-race meeting
- To follow the instructions received from the Chief Judge
- To caution a competitor who is in danger of breaking the rules and to record that caution
- · To warn the competitor for breaking the rule
- To complete the red Judging card accurately and to pass it to the Recorder
- · Participate at post-race meeting and relevant discussion



Deputy Chief Judges - Duties

- · Participate at pre-race meeting
- To follow the instructions received from the Chief Judge
- To disqualify a competitor according to the instruction of the Recorder/Chief Judge
- \cdot To inform the Recorder of the time of disqualification
- · Participate at post-race meeting and relevant discussion



Recorder - Duties

- · Participate at pre-race meeting
- Collect the <u>Judges' warning cards</u> and record the information on the Judging Summary Sheet and/or checking the electronic data collection system
- Notify the <u>Warning Posting Board Operator</u> of warnings, and check the electronic WPB,
- Immediatly notify the Chief Judge & Deputy Chief Judge when three warning cards from three different Judges have been handed in
- · Participate at post-race meeting and relevant discussion



Warning Posting Board Assistants - Duties

 When notified by the recorder, place the red marks, immediatly, in the relevant blank space(s) beside the offending competitor's number

 Check continuously with the Recorder for the correctness of the electronic Warning Posting Board



IAAF Level II Race Walking Judges Course

Competition Management – Part 2



Objective

- To understand the planning, execution and evaluation of competition briefing
 - Pre-Race Meeting
 - Post-Race Meeting
- Workshop to familiarise with the use of judging sheets



Pre-Race meeting participants

- · Chief judge
- · Deputy chief judge
- Walking judges
- Recorder(s) & Posting Board Assistant(s)



Pre-Race meeting planning

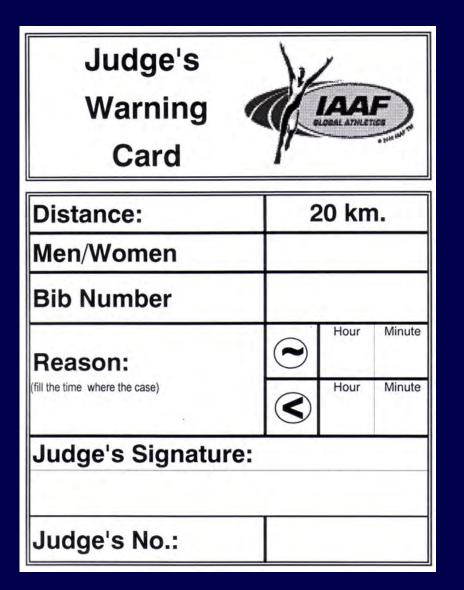
DATE 4 June 2	005		COMPETITION R. W. Challer	nge - La Coru	na 2005		CHEF JUDGE Dolores ROJAS (ESP)										
Judge's Name	DIAS (POR)	ESTRUCH (ESP)	DANN (FRA)	KRYNECKI (POL)	CEURLI (ITA)			_	Chief Judge	DQ notification	CHECK DQ CARDS						
Number	1	2		4	5	6 INGS	7	8	Time	-	-						
Bib	Time	Time	ONL Y	Time	A R N Time	INGS Time	Time	Time	a lime	Time	w						
Athlete	Offence	Offence	Offence	Offence	Offence	Offence	Offence	Offence	Offence		-						
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CHECK	w	w	w	w	w	w	w	w	w		W						

Explanation, by Chief Judge, of details of the course

 Explanation of the red cards collecting system and/or the electronic system



Pre-Race meeting planning



- Distribution of all material and sheets
- Assign numbers and positions on the course to each judge

 Judge's movement on 1st and last part of the race

Post-Race meeting planning

	K	IAA			RW JUDGE RECORD							
Bib N°		ution		rning	Bib Nº		tion	Warning				
	< or ~	Time	< or ~	Time		< or ~	Time	< or ~	Time			
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 Collecting, by Recorder, of all Individual Record Cards in order to prepare final "Summary Sheet"

Post-Race meeting planning

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- Discussion by Chief Judge, of the highlights of the competition
- Explanation for the reasons of the disqualifications
- Discussion and comments of all judges
- Distribution to judges and TIC of "Summary Sheet"



IAAF Level II Race Walking Judges Course

Competition Management – Part 3



Objective

 To know the correct setup for the different race walking events

 To understand the procedures of road measurement



Course selection rules

 IAAF Rule 230.10 (a) is the general requirement for the selection of the maximum/ minimum course length

 IAAF Rule 240.3 indicates how road courses must be measured



Course selection

 \cdot The courses shall not be too steep in grade, especially downhill section

- \cdot The road surface should be smooth
- \cdot Not to be located further than 1 km from the stadium
 - Loop Course
 - Avoid the need for tight turns
 - Presents less viewing opportunities for the judges

Up & back course

- · Easy for organisation
- \cdot Better for Media
- Better for Judges
- Road wide enough to prevent tight turns



Example of the course



View of width and slope









Lap Counters







Good Example

Bad Example

Refreshment area







Electronic



Warning Posting Board







Good Example

Bad Example

Turn around

New Rule for Young: Pit Lane Rule

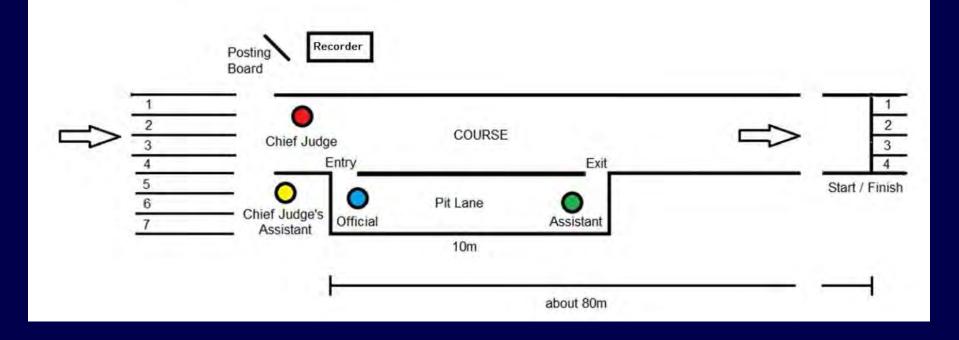
- » The big goal is principally aimed at reducing (if not eliminating altogether) disqualifications in U16
- » The Judges don't change their criteria of judging
- » It doesn't need a lot of additional officials
- » Is easy to manage, in particular in track events



Pit Lane Rule

» Example of Pit Lane Area

Example of set-up for a track event



Penalties

- When one athlete receives 3 red cards he must stop in the penalty area at the first opportunity
 Races up to 5.000m. included: stop time is 60 seconds
- » Races longer than 5.000m. up to 10.000m.: stop time is 120 seconds
- » At 4th red card: disqualified
- » If 3rd red card arrived at the late stage of the race and is isn't possible to stop the athlete shall finish and the penalty time shall be added to his official time.

IAAF Level II Race Walking Judges Course

Major Events Communication System





To understand the procedure of the electronic communication system for major events



System Benefits

- Reduces the time needed for showing the warning on the warning board and the decision making
- Consequently reduce the time between the third warning and disqualification
- \cdot To help the athlete
- Allow coaches to know the judges decisions on the athlete
- To ensure that media and public get the latest technical news on the progress of the race



Procedures and System Components

The achievement of the objectives is going through the use of a modern data processing system which guarantees:

- Faster information
- Security of information flow
- Absolute certainty of no outside interference
- Presence of an alternative backup system for immediate use



Examples of the system

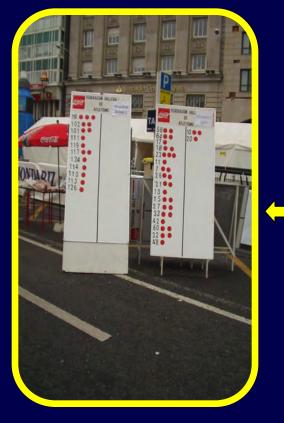


Communication Systems (Seiko, Swatch)



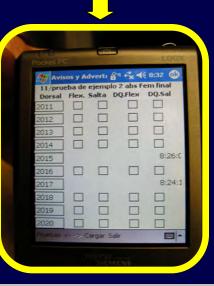
Examples of the system Electronic Communication

Manual Board











IAAF Level II Race Walking Judges Course

Judges Efficiency





 \cdot Roles of a Judge

 \cdot An ideal Judge

- Judges Workshop
- · Code of Ethics for Officials



Roles of a Judge

- The official's primary role is to act as an impartial judge and so facilitate the process of fair competition.
- This role carries with it an obligation for the official to perform with accuracy, consistency, objectivity and the highest sense of integrity.



Features of an ideal Judge Focus: Athletes

An ideal judge...

- \cdot assumes that most of the athletes are not breaking the rules.
- is aware that a judicious use of caution can avoid an infringement of the rules by the athlete.
- · avoids any prejudging of athletes.
- · does not intimidate athletes.
- understands that a judges' competence is not expressed through the number of given red cards.



Features of an ideal Judge Focus: Caution / Disqualification

An ideal judge...

- · acts immediately on all judgements.
- ensures the athletes' understanding of the caution.
- indicates clearly the reason for caution / disqualification and correctly completes the appropriate cards.
- communicates only with the Chief Judge or recorder on disqualifications and queries.



Features of an ideal Judge Focus: before and after the competition

An ideal judge...

· arrives at least 45 minutes prior to scheduled start time

 \cdot reports promptly to the Post Race Judges' Meeting



Features of an ideal Judge Focus: during competition

An ideal judge...

- \cdot must not inform other competitors about the progress of a race.
- observes from the outside lanes and moves at times to the inside of a road, judging from a non-elevated position.
- \cdot does not time the race.
- \cdot uses only his eyes to judge the athletes.



Features of an ideal Judge Focus: General

An ideal judge...

- · appears professional (clothing, behaviour).
- \cdot is impartial to all competitors and teams.
- \cdot is always active, concentrated and attentive during competition.
- $\cdot\,$ is not receptive to external comments (e.g. by spectators, coaches).
- · does not have any additional responsibilities while judging.
- Does not use cameras, mobile phones and other electronic devices during competition.



Officiating Workshop

Work together with a group of course participants to discuss the following questions:

- 1. What makes up the authority of a Technical Official?
- 2. How can we guarantee impartiality in athletics?
- 3. What is the right manner to approach athletes?
- 4. Describe areas that concern safety and the role of a Technical Official.



Code of Ethics for Officials

- · Respect of Human Rights
- · Respect of Rules
- Respect of Athletes and Coaches
- · Respect of other Officials
- · Respect of Proficiency
- · Respect of the Officials Image
- · Respect for the Esprit de Corps

Code of Ethics for Officials

 The basic principle of the IAAF Code of Ethics for Officials is that ethical considerations leading to fair play are integral, and not optional, elements of all sports activity.

 These ethical considerations apply to all levels of ability and commitment. They include recreational as well as competitive Athletics.

