



### Looking Back to Move Forward

Herb Elliot & Percy Cerutty





#### The Goal

At the end of the journey all physical limitations are eradicated and the athlete is ready technically, tactically, physically and psychologically to run fast & compete to win

# Everything is Driven by Demands of the Race Distance & Physical Qualities of the Runner







Garbage Strength

Now I have your attention



Lack of Progression

Too Many Exercises

Exercise Selection

Exercise Order



# Are you afraid your runners will look like this?

#### Strength/Power = Speed

A comprehensive strength training program offers huge potential for improvement!

Comprehensive strength training offers more return for what you are doing in the running training

Comprehensive strength training is the foundation for speed

# Strength Before Strength Endurance

CANNOT endure a quality you have not developed!

Train for endurance with running & strength/power in preparation for running fast

#### Potential Benefits

Efficiency

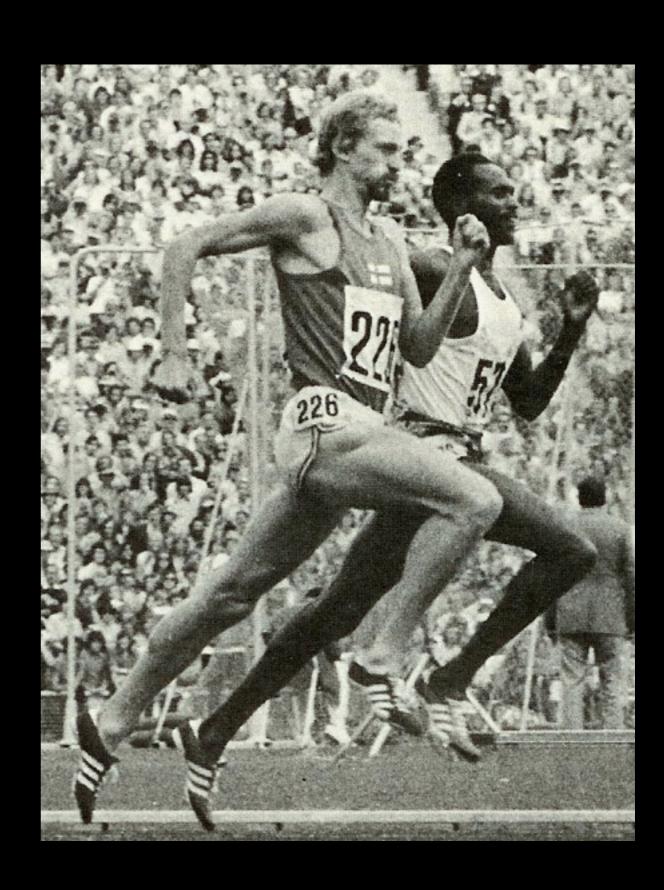
Biomechanical

Physiological

Dynamic Posture

Nervous System Excitation & Tuning

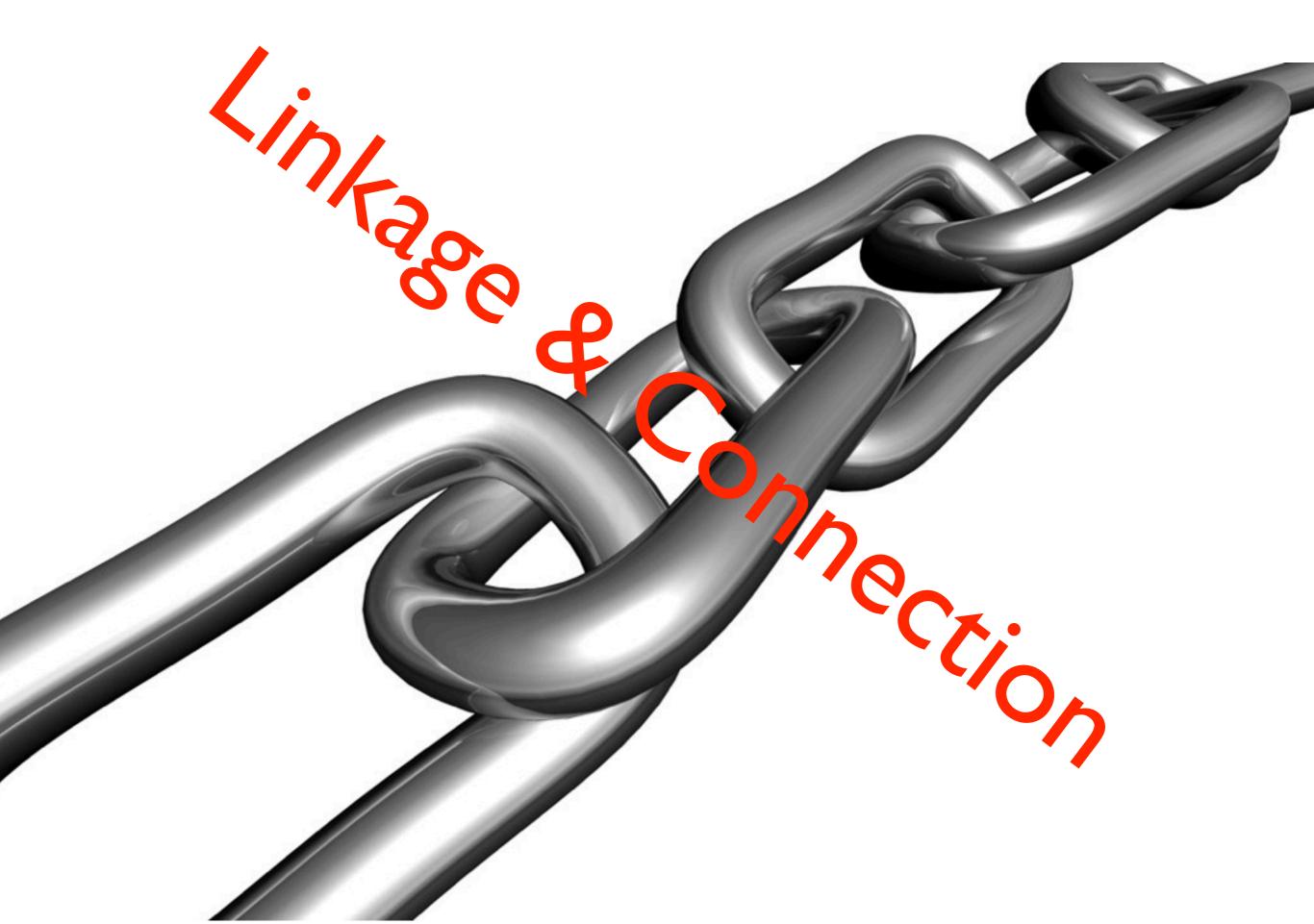
Injury Prevention



#### Strength Training



Coordination training with appropriate resistance to handle bodyweight, resist gravity and optimize ground reaction forces



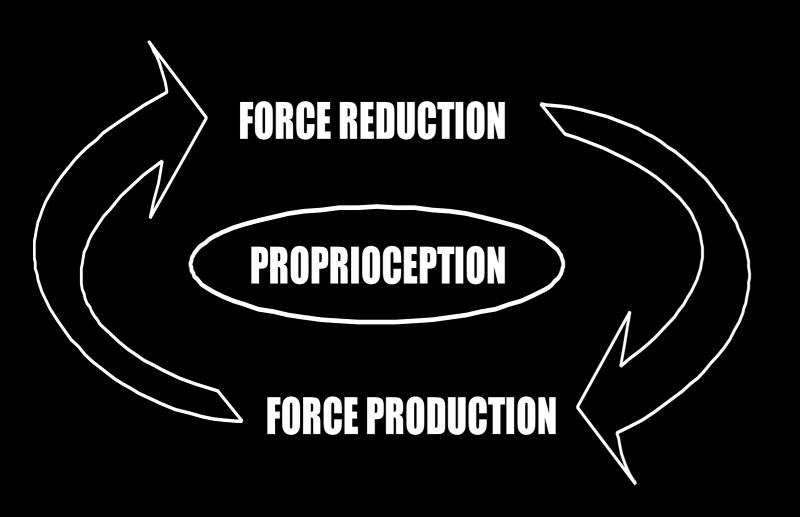
#### Must Reconcile:

Want to do

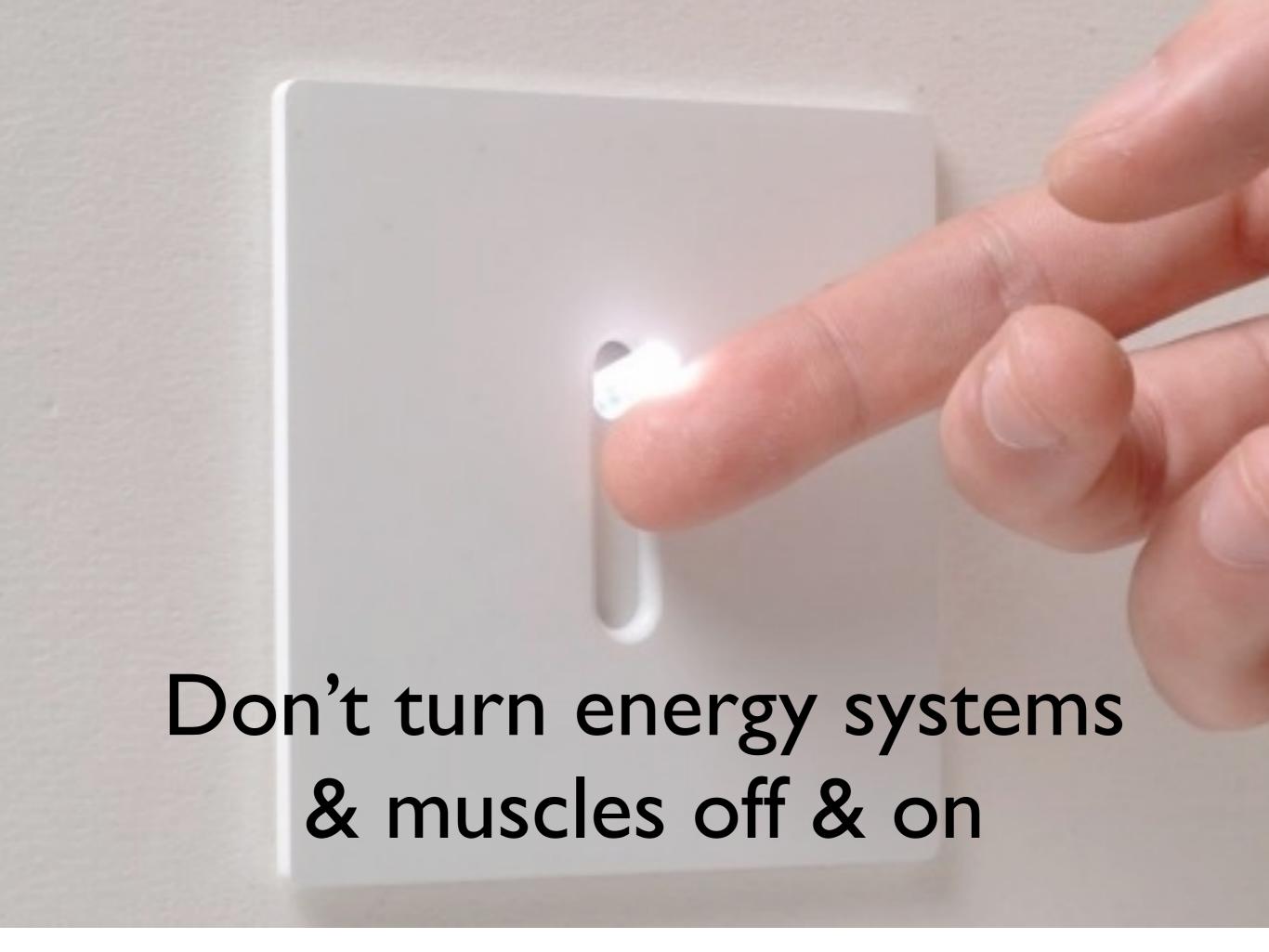
Nice to Do

Need to Do

#### Performance Paradigm



This is your guide, the context for exercise selection & prescription



#### The Running Athlete's Body



"... the function of a muscle depends critically on the context in which it is activated." Roger Enoka Anatomical Structure determines function, this determines exercise selection and prescription



## The Starting Point A Thorough & Complete PCA



### Training Tools



#### Pull

#### Push

Squat

Rotate

Brace













#### Squat with Mini Band

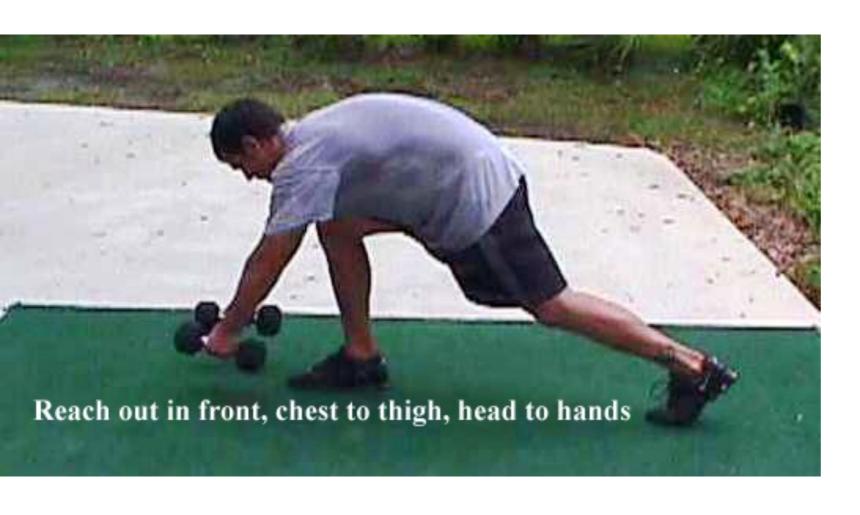








#### Lunge & Reach (Anterior)









#### Hurdles



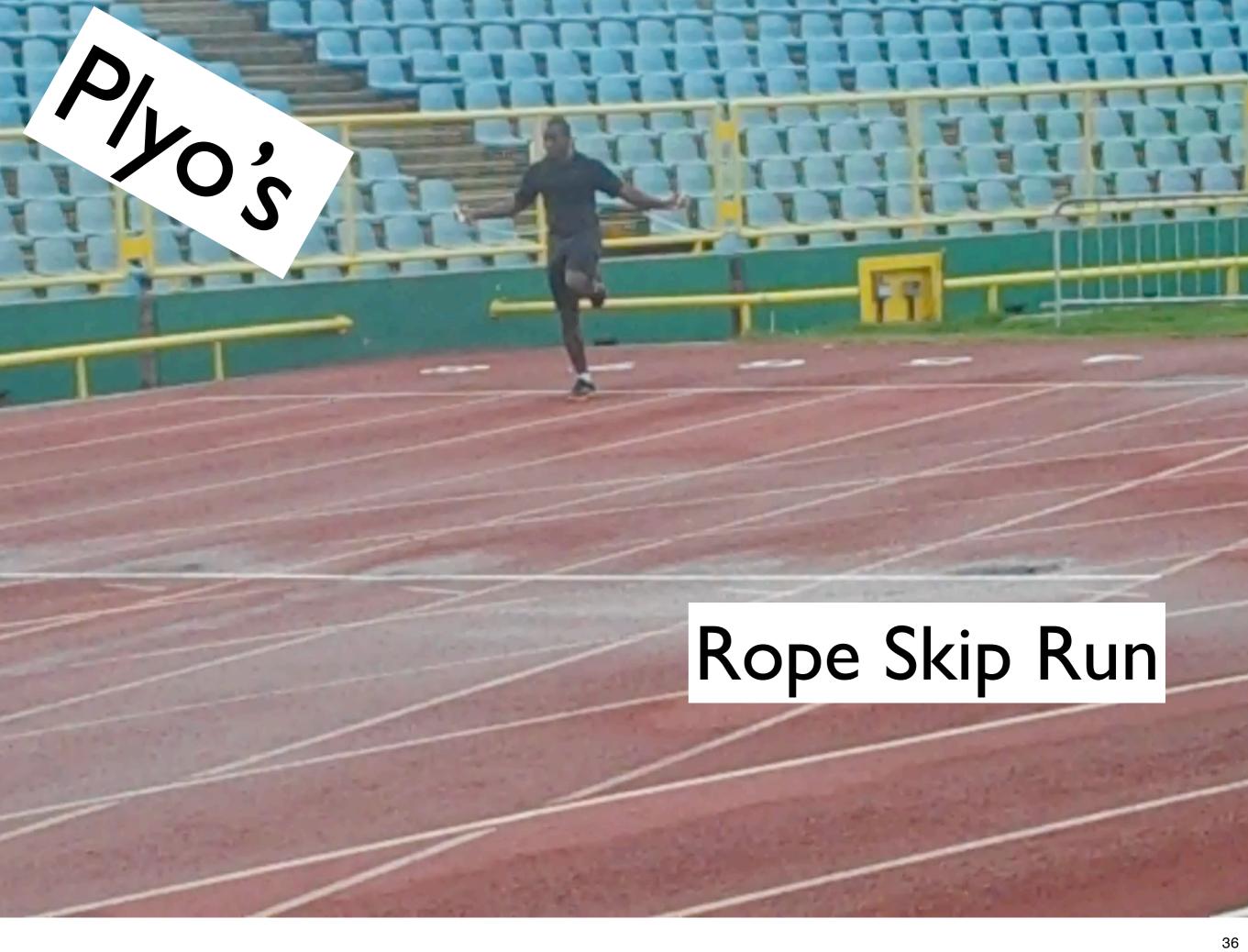
When

How

Where





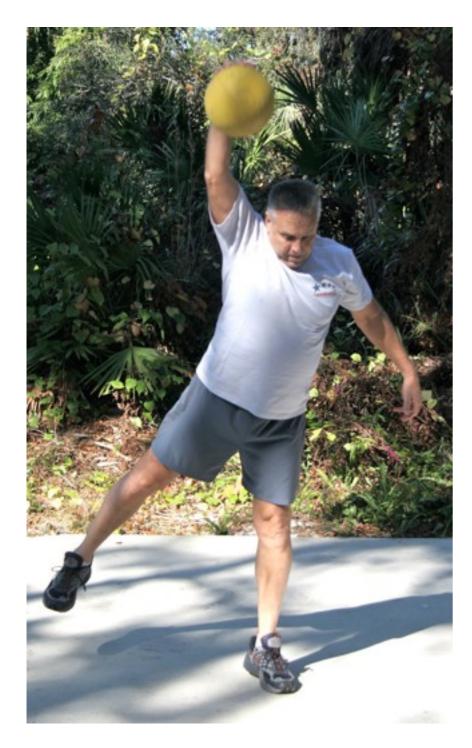


# Core

# Core before Extremity Strength



# Core Training Postures





90% on Your Feet

### Get out of the Saggital Plane!

Rotation is just as important for the runner as the thrower

## Rotate

# Upper Body









# Constructing an Effective Strength Workout

Train for Strength/Power Be focused & intense

Use fewer exercises & choose the exercises carefully based on event demands & individual needs

Have a clearly defined criteria based progression

### Strength Training Distribution

(No Competition - Summer or Winter)

	DAY ONE	DAY TWO	DAY THREE	DAY FOUR	DAY FIVE	DAY SIX	DAY SEVEN
Four Day Split Early	TB - S LE & HU Core	UB Core Flex	CORE FLEX & HO	TB - HP LE & HU Core	UB Core Flex	CORE FLEX & HO	Rest Flex
Four Day Split Late	LE & HU	UB Core Flex	CORE FLEX & HO	TB - DBC LE & HU Core	UB Core Flex	TB - DBC CORE FLEX & HO or CIR	Rest Flex

Remedial Work Daily (Preferably in AM - Determined by individual needs based on PCA & Injury History

TB = Total Body DBC = Dumbbell Complex S = Snatch HP = High Pull

LE = Lower Extremity

UB = Upper Body

CIR = Circuit

P = Plyo's

HU = Hurdle Under HO = Hurdle Over

CORE (All Caps) = Major Emphasis CORE (Lower Case) = Minor Emphasis

FLEX (All Caps = Major Emphasis) Flex (Lower Case = Minor Emphasis)

## Total Body/Lower Extremity

```
Warm-up
   Mini Band
   Med Ball – Walking Rotations
   Lunge & Reach
Core
   Basic Core
Strength Training
   Single Leg Squat
         2 x 6 each leg (Regular) Seated 1 x 6
   KB Swing
      1 x 6 Two Arm, 1 x 6 One Arm
   High Pull 3 x 6
   Squat 3 to 5 x 20
   Lunge 3 to 5 x 20 (10 each leg)
   Front Pulldown 3 x 6
Hurdles
   Hurdle Unders x 6 each direction
Core
    Total Body Throws
         Over the Back x 6, Forward x 6, Squat Throw x 10
```

### Upper Body

```
Warm-up
   Bubble – Runner, Over the Top, Rotation
Core
   Stretch Cord Core
   Landmine Core
Strength Training
   JG Assisted Pull-up 5 x 4
   High, Y, Fly (= One Rep) 3 x 3
   Incline Push-ups 4 x 8
   Arm Step-ups 2 x 20
   Pullovers 3 x 6
Core
   Ring Core
   Wall Throws
      Over Head x 20
      Soccer Throws x 20
      Chest Pass x 20
      Cross in Front x 20
      Down the Side x 20
      Around the Back x 20
```

# DB Complex (DBC)

DB High Pull x 6
Alt DB Press x 6
DB SquaT x 6
DB Row x 6

# 1/2 Leg Circuit

Squat x 10
Lunge x 5 each Leg
Step-up x 5 each Leg
Jump Squat x 5

### Core Modules

### **Basic Rotations**

Walking Wide Twist x 20
Walking Tight Twist x 20
Walking Over the Top x 20
Walking Figure Eight x 20

Basic Core

Big Circle x 5 each Direction
Bouncing Rotations x 10 each side
Over The Top x 10 each side
Alternate One Arm Slams x 10 each arm

Cable Core

Flexion/Extension x 10
Twisting (Waist Height) x 10 each side
Chops x 10 each side
Big Circles x 10 Clockwise & 10 Counterclockwise

Medicine Ball Rotations

Standing Full Twist X 10 Each Direction
Standing Half Twist. X 10 Each Direction
Half Chop X 10 Each Way
Solo Med Ball Sit Up (Two position right & left) X 5 Reps

Medicine Ball Wall Throws

Overhead Throw x 20
Soccer Throw x 20
Chest Pass x 20
Standing Side to Side x 10 Each Side (Cross in front)
Standing Cross in Front x 10 Each Side
Around the Back x 10 Each Side

Medicine Ball Power Throws

Single Leg Squat & Throw x 6 each leg
Single Leg Squat & Scoop Throw x 6 each leg
Over The back Throw x 6
Forward Through The legs x 6
Squat & Throw x 10

### Strength Training Distribution

(Competition)

	DAY ONE	DAY TWO	DAY THREE	DAY FOUR	DAY FIVE	DAY SIX	DAY SEVEN
Four Day Split Routine Early Comp	TB - DBC LE & HU Core	UB Core Flex	TB - DBC LE - MLC HO Core	UB Core Flex	Core Flex	COMP	Rest
Three Day Routine Late Comp	TB - DBC LE & HO UB	CORE FLEX	TB - DBC LE - MLC HO	Core UB	Core Flex	COMP	Rest Flex

Remedial Work Daily (Preferably in AM - Determined by individual needs based on PCA & Injury History

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LE = Lower Extremity LC = Leg Circuit MLC = Mini Leg Circuit

UB = Upper Body

P = Plyo's

HU = Hurdle Under HO = Hurdle Over

CORE (All Caps) = Major Emphasis CORE (Lower Case) = Minor Emphasis

FLEX (All Caps = Major Emphasis) Flex (Lower Case = Minor Emphasis)

### Strength Training Distribution

(Peak Competition)

	DAY ONE	DAY TWO	DAY THREE	DAY FOUR	DAY FIVE	DAY SIX	DAY SEVEN
Three Day Routine		CORE		CORE	Flex	COMP	Rest
Rodenie	LE & HO UB	FLEX	UB HU	FLEX			Flex

Remedial Work Daily (Preferably in AM - Determined by individual needs based on PCA & Injury History

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LE = Lower Extremity MLC = Mini Leg Circuit

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### Remediate/Re-abilitate Daily

FUNdamental Work Posture (Dynamic)

Balance

Coordination

## Hip Series

### Hip Series One - Standing

### Standing #1



Lift one leg in front and move up and down. Repeat with the other leg.

### Standing #2



Lift one leg to the side and move up and down. Repeat with the other leg.

### Standing #3



Lift one leg behind and move up and down. Repeat with the other leg.

### Standing #4



Move the leg up and down. Repeat with the other leg.

### Hip Series Two – Kneeling

### Kneeling #1



Extend the opposite leg to the front and move it up and down

### Kneeling #2



Extend the opposite leg to the side and move up and down, repeat with the other leg.

### Kneeling #3

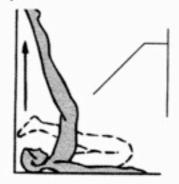


Extend the opposite leg behind the body and move it up and down, repeat with the other leg.

## Hip Series

### Hip Series Three - Supine

Supine #1



While lying on the floor, fold legs over the body and raise the hips up and down

Supine #2



Raise one leg with the knee bent

While lying face up on the floor, bring the body up in the arch position

Move hips up and down while holding the leg in position. Repeat with the other leg up.

Supine #3



### Supine 3A&B

One leg against the wall and the other leg raised with the knee bent



Move the hips up and down while holding the leg in position. Repeat with the other leg

### Supine #4



# Hip Drop Series



Forward

Step Down



Back

**Across** 

# Stepping Stones



# Warm-up

Might be the most important component of the training session

Warm-up to run do not run to warm-up

## Multi Stage Warm-up

- Mini Band Routine (Band above ankles)
   Sidestep Walk Forward/Back Carioca Monster Walk
- 2) Balance & Stability
  Single Leg Squat (Hold each position five counts)
  Straight Ahead Side Rotation
- 3) Basic Core Walking Forward & Back (3 Kg Med Ball)
  Wide Rotation x 20 Tight Rotation x 20 Side to Side x 20
  Chop to Knee x 20 Figure 8 x 20
- 4) Lunge & Reach Series (2 reps in each plane Forward/Side/Rotational)

  Reach Up

  Reach Out & Down

  Reach Across
- 5) Crawls

  Jack Knife Crawl x 5 Creepy Crawl x 5
- 5) Active Stretch (No more than two minutes)
  Calf Hamstrings PsoasLats Pecs
- 6) Coordination (All @ 30 meters x 2)

Skip

Crossover Skip

Side Step

Carioca

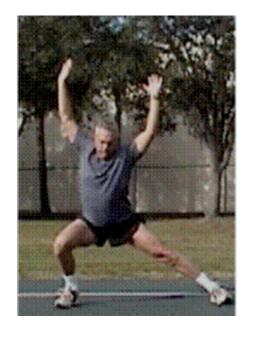
**Backward Run** 

High Skip

High Skip with Rotation

7) Accelerations 4 - 6 x 40 to 60 meters







### Lunge & Reach Series





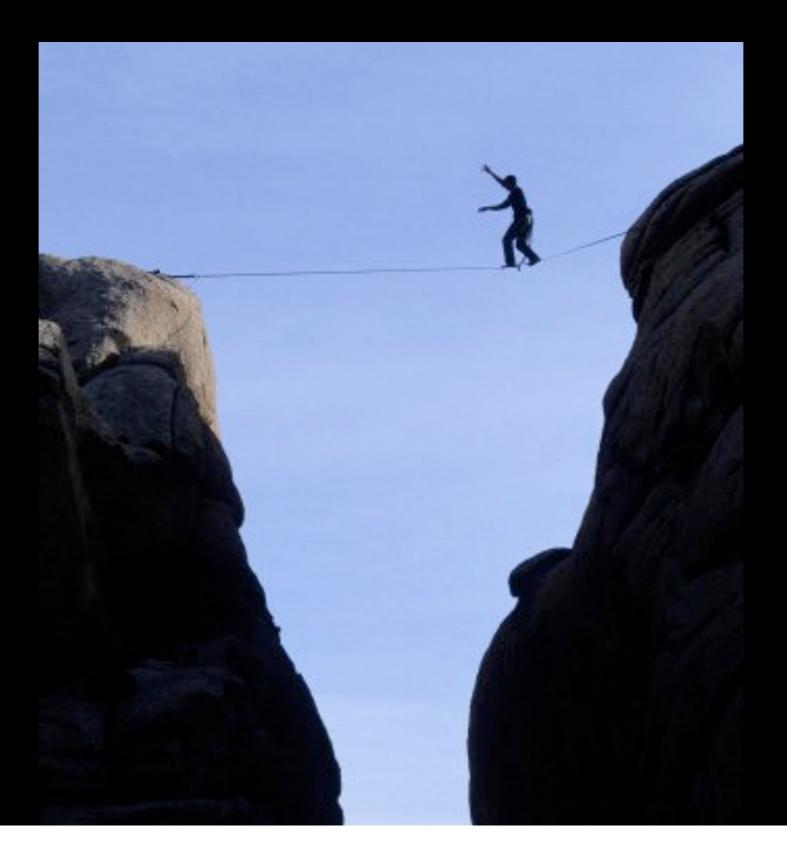








# Tapering





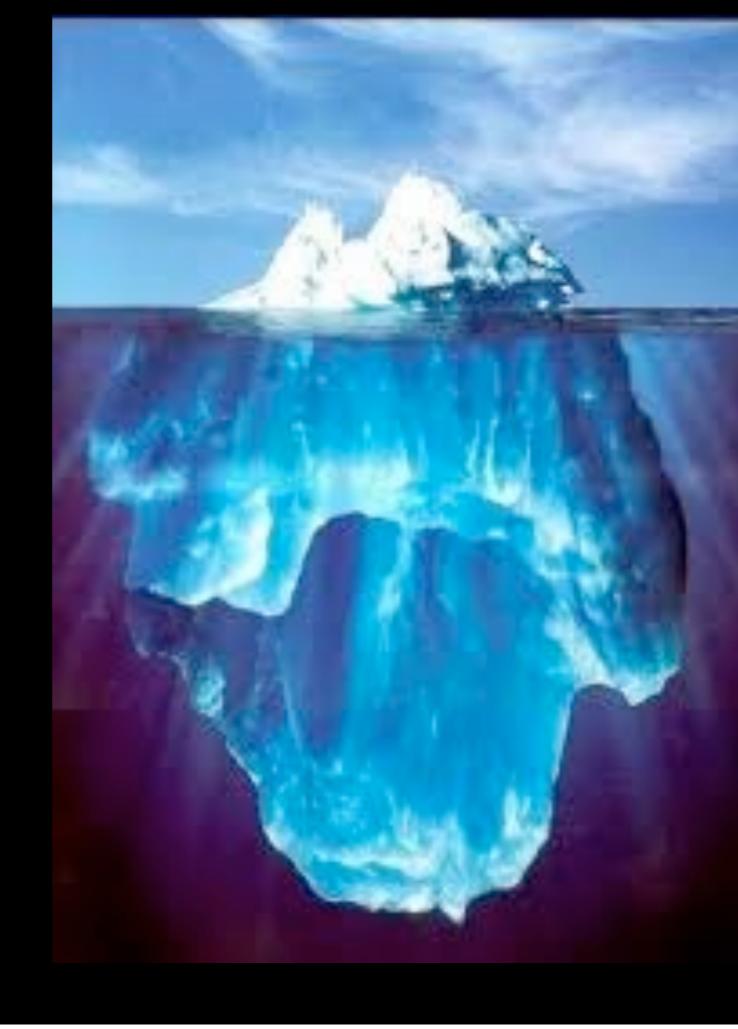
# Time - How Long?

All Long As You Need!

Timing - More Important
Than Time

Get it right the first time!

What you see or think you see sometimes is only the tip of the iceberg



### Where will you stand?



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