# JIM VANHOOTEGEM ITCCCA- JAN 2020

# DESIGNING TRAINING FOR JUMPING EVENTS





# #1 TRAINING V TECHNIQUE

- DIVORCE OR INTEGRATE?
  - TEACH AT DIFFERENT SPEEDS
  - LOTS OF OPPORTUNITIES
  - VETERAN ATHLETES

# #2 GENERAL COORDINATION

- PROGRESS LIKE ANYTHING ELSE
- HIDDEN AT FAST SPEEDS

#### #3 PRIORITIZATION OF NEURO-MUSCULAR TRAINING

- PRODUCE FORCE
- MORE EFFICIENT = MORE EFFICIENT DISPLAYS
  - **SPEED**
  - **POWER**
  - **COORDINATION**

#3 PRIORITIZATION OF NEURO-MUSCULAR TRAINING (CONT)

- BIGGEST FACTOR IN PERFORMANCE
- ~2/3 OF TRAINING- THEMED N/M
- ~1/3 OF TRAINING- BALANCE/ COMPLIMENT N/M

# #4 QUALITY ASSURANCE

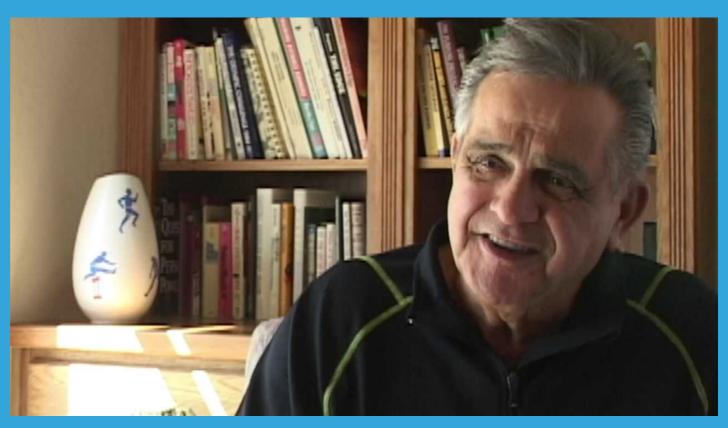
- **DECREASE** 
  - **DISTANCE**
  - LOAD
  - COMPLEXITY
- **INCREASE** 
  - **REST**
- MOVE ON

## **#5 DRILLS V PROGRESSIONS**

- DRILLS PROVIDE ENVIRONMENT
  TO TEACH
- PROGRESSIONS= SERIES OF INCREASING SPEEDS AND COMPLEXITIES



# YOU'RE THE COACH!



## **#6 REST IS PLANNED**

- MACROCYCLE (ANNUAL)
  - CLEAR END/BEGINNING
  - ▶ "SUMMER HEROES" "GOOD SHAPE, NOT GREAT SHAPE"
  - HOWEVER, 1X4 YRS, NOT 4X1 YRS
- ► MESOCYCLE (~4 WEEKS)
  - ▶ "REST IS COMING"
- MICROCYCLE (WEEK)
  - **▶ WED/THUR**
- **SESSION** 
  - **ANTECDOTE: BRITS**
- **UNIT** 
  - ► COACH- MONITOR/CONTROL





# WHAT TO INCLUDE

# SPECIFIC TRAINING

- LOOKS LIKE THE EVENT
  - AGE/EXPERIENCE FACTORS

# **GENERAL TRAINING**

- PREPARE TO DO MORE SPECIFIC TRAINING
- "TRAINING TO TRAIN"
- CAUTION

# TRAINING PROGRESSIONS

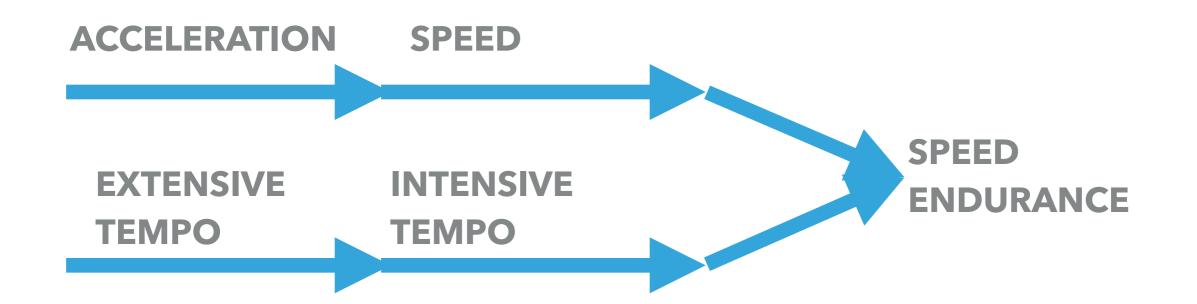
# **SPEED**

- HIGH INTENSITY
- INVERT THE PYRAMID
  - **ACCELERATION** 
    - PREPARE TO RUN FAST
    - DEVELOP N/M FOR SPEED
  - **SPEED** 
    - **ABSOLUTE SPEED**
  - SPEED ENDURANCE
    - > STABILIZATION OF SPEED
    - > SPECIFIC COORDINATION
    - MATCHES COORDINATION LEVELS FOR JUMPS

# **TEMPO**

- **SUBMAXIMAL RUNS** 
  - **EXTENSIVE**
  - **INTENSIVE**
- **DISTANCES**
- REST
- **WHATIASK FOR**

#### **SPRINT TRAINING**



# **MULTI-JUMP TRAINING**

- Build Capacity
  - In-Place Jumps
  - **Circuits**

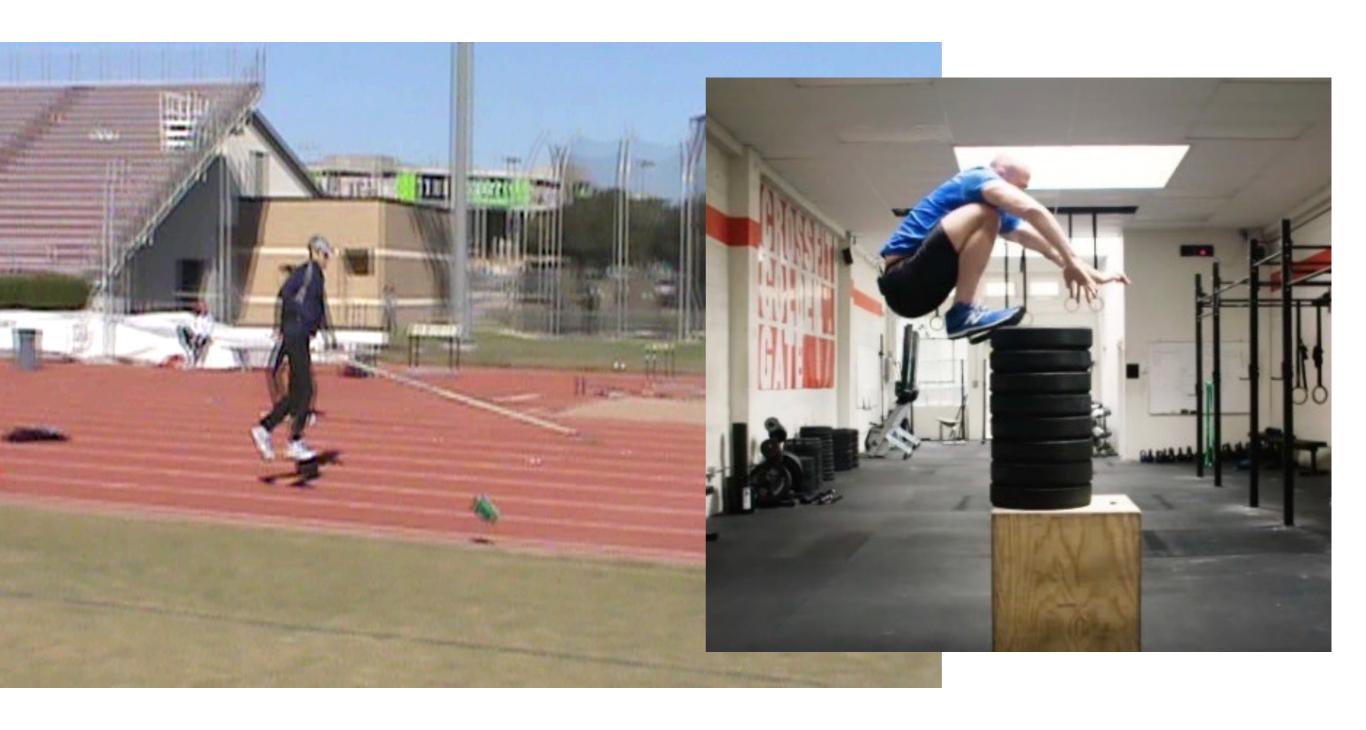
#### **MULTI-JUMP TRAINING (CONT)**

- Horizontally-Directed Jumps
  - Simple to Complex
    - Double Leg to Single Leg
    - Alternate to Combo

#### **MULTI-JUMP TRAINING (CONT)**

- Vertically-Directed Jumps
  - Simple to Complex
    - Double Leg to Single Leg
    - Alternate to Combo
    - Include Multi-Directional

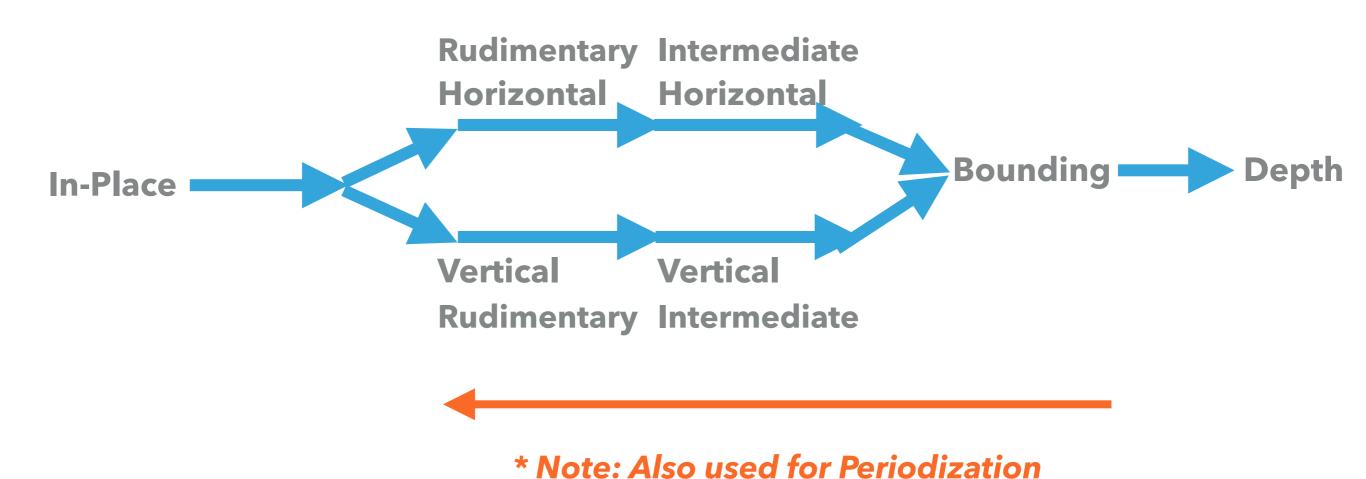
# BIG 12/SEC LEVEL LOTS AND LOTS OF RUDIMENTARY AND INTERMEDIATE JUMPS



#### MULTI-JUMP TRAINING (CONT)

- ADVANCED
  - **BOUNDING**
  - DEPTH JUMPS
    - Lots of monitoring

#### **MULTI-JUMP TRAINING**



#### **EVENT TECHNIQUE**

- Drills/Progressions
- Short Run Jumps
- HJ- Approaches/ Full Approach Jumps
- LJ/TJ- Approaches (Run-through or Modified Takeoff only/ No Full Approach Jumps)
- PV- Approaches/ Full Approach Jump (?)

#### **EVENT TECHNIQUE (CONT)**

### BLEEDING



### **STRENGTH**

- Not Separate
- Part of Training Plan
- Needs to Match Progressions

\* Note: In my programs- good barometer of our overall intensities

x x x x Indo x x x x Conf Last Char NCAA	
Date (Mondays) 9/19 9/26 10/3 0/10 0/17 0/24 0/3 11/7 1/14 1/2 11/2 12/5 2/17 2/19 2/26 1/2 1/9 1/16 1/23 1/30 2/6 2/13 2/20 2/27 3/6 3/13 3/20 3/27 4/3 4/10 4/17 4/24 5/1 5/8 5/15 5/22	
Macrocycles Outdoor	
Periods Preparatory Competition Preparatory Competition Trans	tion
Phases General Preparation Specific Preparation Precompetition Competition Specific Preparation Competition Compet	
Mesocycles 1 2 3 4 5 6 7 8 9	
Mesocycle Theme 1 Work Capacity Technique Speed Strength Synthesis Peaking Review Synthesis Peaking	
Microcycles 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	
Volume (1-10) 10 10 10 5 9 9 9 5 8 8 8 5 4 7 7 4 6 6 6 6 3 4 4 4 4 3 6 6 4 4 4 4 3 3 3 3	
Intensity (1-10) 1 1 2 2 3 3 4 4 5 5 6 8 8 8 8 8 8 9 9 9 9 10 10 10 10 6 6 6 6 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	

# ANNUAL PLANNING

# **KEY POINTS**

- Identify Time Available
- Identify Key Meets
- Work Backwards
  - Common Mistake- Working Forward

## PHASES/PERIODS

- Preparation Phase
  - General Prep Period
  - Specific Prep Period
- Competition Phase
  - Early Competition Period
  - Late Competition Period

#### PHASES (CONT)

#### **Key Point**

- No matter the # of Weeks
  - 1/2 of Time in PREP
    - 1/2 of PREP time in General Prep
    - 1/2 of PREP time in Specific Prep

#### PHASES (CONT)

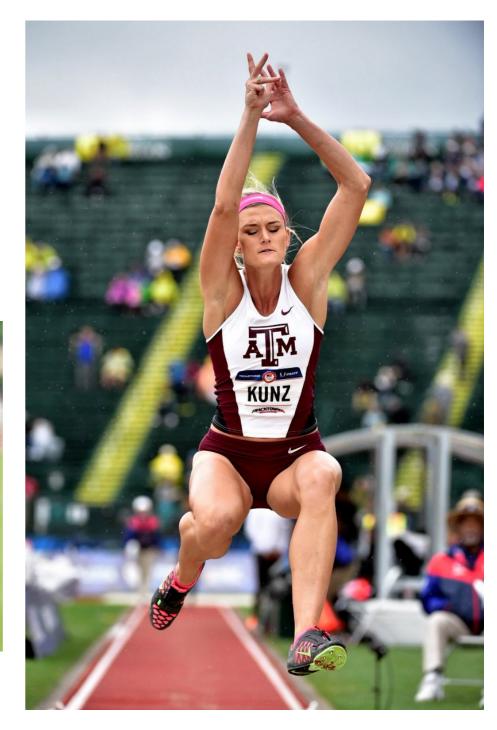
- Importance of General Prep
- Importance of Specific Prep
  - Synthesis
  - Problem-Solving
  - Common Mistake- not enough time in Specific Prep

#### PHASES (CONT)

# Multi-Sport Athletes







# **VOLUMES & INTENSITIES**

- Begin
  - High Volume/ Low Intensity
- Progress
  - Decreasing Volumes/ Increasing Intensities
- Thus, Overload-Intensity (not volume based)

# PHASES OF SKILL LEARNING

- Acquisition
- Refinement
- Stabilization
  - Key
  - MOTOR LEARNING
  - WHEN TO ADVANCE?

# SPECIAL CONSIDERATIONS

- Squats
- Lactate Training
  - Delay
  - Minimized

# PLANNING WEEKLY TRAINING

# **GROUPING**

- Neuro-muscular v General
  - Hard/Easy Concept, but by N/M demand
  - Ratio
    - Time of Year
    - Stage of Athlete
- Compatible
  - Clear Message
- Complimentary

### SPECIAL CONSIDERATIONS

- The Meets Count
- Squats
- Lactate
- **▶** Event-Specific
  - No Mondays For Me (and Them)
  - Density
    - Experience Level
    - ▶ The "Hot" Jumper
    - ▶ The Meet Counts
    - Don't Be Afraid to Omit
  - Triple Jump

# PLANNING THE TRAINING SESSION

#### **WARMUPS**

- Primary purpose- prepares the body for the main units
  - Note: modern society dictates this even more
    - ▶ T&F- Posture/Large ROM
    - Teenagers- Slumped/Small ROM
- Secondary purpose- general coordination/technical development
  - Example: Heel-Toe
- Other purposes
  - Athlete- develop awareness
  - Coach- monitoring
  - Communication- Verbal/Non-Verbal

### ORDERING TRAINING UNITS

- TECHNICAL
- SPEED/POWER
- STATIC/ENDURANCE

# **CONCLUDING ACTIVITIES**

- Resting State
- Composure
- Prepare for Next Session
- Stretching



#### **GENERAL PREP- MONDAY**

#### THEMES: N/M- HIGH, SHORTER DURATION, HZ/LONGER CONTACTS

- Warmup
- Acceleration
  - Crouch Starts: 4x10,20,30m
- Multi-Jumps
  - ▶ Remedial Hz (SLJ, 3DLB, STJ): x 6 each
- Weights
  - Snatch Complex: 6x6
  - Deep Squat: 4x8
  - ▶ Bench Press: 4x8
- Multi-Throws
  - Chest/OH Throws from Step/Lunge Position: ~18
- Myofascial Stretching
  - > 3-4 Selected Stretches: 3x30" each

#### **GENERAL PREP-TUESDAY**

#### THEMES: GENERAL, ENERGY & ENDOCRINE SYSTEM DEVELOPMENT

- Warmup
- Technique
  - Takeoff Series (Skips/Repetitive Takeoffs)
- General Strength Circuits
  - ▶ General Calisthenics into Sprint: 12 exercises x 20"/40"
  - General Calisthenics: 12 exercises x 20"/20"
- Weights
  - Circuit: 2 sets of 12 exercises x 10 each/ R=60"
- Specialized Calisthenic
  - Variety of Special Walks: BAREFOOTED on Grass or Sandpit

#### **GENERAL PREP-WEDNESDAY**

#### THEMES: N/M- MODERATE, MEDIUM DURATION, VT/SHORTER CONTACT TIMES

- Warmup
- Sprint Technique
  - Stadium Runs (Single Step)
- Multi-Jumps
  - "Baby Bounds": by contacts \*example of high volume/low intensity/OPPORTUNITIES
- Weights
  - Clean Complex: 6x6
  - Front Squat: 2x6
  - Snatch Squat: 2x6
  - ▶ Incline Press: 4x8
- Multi-Throws
  - ▶ Throws from Toeboard (OHB,BLF,HHT): ~18
- Myofascial Stretching
  - > 3-4 Selected Stretches: 3x30" each

#### **GENERAL PREP-THURSDAY**

#### THEMES: GENERAL, GENERAL/STRENGTH ENDURANCE

- Warmup
- Technique
  - Takeoff Series (Skips/Repetitive Takeoffs)
- Medicine Ball Circuit
  - Theme: Connective Tissue
- Weights
  - Circuit: 2 sets of 12 exercises x 10 each/ R=60"
- Specialized Calisthenic
  - Variety of Toe Raises/Squat/Lunge Movements
  - Note: Evaluative

# GENERAL PREP- FRIDAY THEMES: N/M- HIGH, ELASTIC/POWER CAPACITY

- Warmup
- Acceleration
  - Resisted Runs: 12x30m
- Multi-Jumps
  - In-Place Jump Circuit
- Weights
  - Clean: 6x5
  - Deep Squat: 4x8
  - ▶ Bench Press: 4x8
- Multi-Throws
  - ▶ Throws from Toeboard (OHB,BLF,HHT): ~18
- Myofascial Stretching
  - > 3-4 Selected Stretches: 3x30" each

#### **GENERAL PREP-SATURDAY**

#### THEMES: GENERAL. ENERGY/ENDOCRINE SYSTEM DEVELOPMENT

- Warmup
- Sprint Technique
  - ▶ Buildup Runs: 4x50m
- Tempo Running
  - > 8x150m/ R=2'
- Hurdle Mobility
- Weights
  - Circuit: 2 sets of 12 exercises x 10 each/ R=60"
- Extending Jogging/Skipping

#### SPECIFIC PREP- MONDAY

#### THEMES: N/M- HIGH, SHORT DURATION, LONGER CONTACT TIMES, \*ABSOLUTE STRENGTH

- Warmup
- Acceleration
  - ▶ Block Starts: 4x20,30,40m or 4x2h,3h,4h
- Multi-Jumps \*\*\* (Alternate with MJ on Monday/Friday or on Wednesday)
  - Special Hurdle Hops: 8x4h or more complex Standing Jumps series
- Weights
  - Hang Snatch: 6x3
  - Deep Squat: 6x5 (Note: Heavy today to get away from Friday speed day)
  - \*Upper Body Exercise: 3x8
- Multi-Throws \*\*\* (only if no MJ)
  - Chest/OH Throws from Step/Lunge Position: ~18
- Myofascial Stretching
  - > 3-4 Selected Stretches: 3x30" each

#### SPECIFIC PREP-TUESDAY

#### THEMES: GENERAL. ENERGY/ENDOCRINE SYSTEM DEVELOPMENT

- Warmup
- Technique
  - ▶ Long Jump (SRJ- 10-12 Step) (if LJ/TJ or LJ/HJ combo)
  - High Jump (Full Approach Jump (if TJ/HJ combo)
- General Strength Circuits
  - ▶ Theme: Stability
- Weights
  - Circuit: 2 sets of 12 exercises x 10 each/ R=60"
- Specialized Calisthenic
  - Variety of Light Skips: BAREFOOTED on Grass or Sandpit

#### SPECIFIC PREP- WEDNESDAY

#### THEMES: N/M- HIGH, MEDIUM DURATION, SHORTER CONTACT TIMES

- Warmup
- Approach
  - LJ Full Approach Runs
  - Note: begin with run-throughs, progress to takeoff with one cycle
  - ▶ Note: prefer LJ for LJ/TJ combos/ also I have HJ do LJ approaches
- Multi-Jumps (\*\*\* Alternate with MJ on Monday/Friday)
  - Bounding
- Weights
  - Hang Clean: 6x3
  - Weighted "Core: Work
    - Back Hypers, Crunch, Bar Twists
- Myofascial Stretching
  - > 3-4 Selected Stretches: 3x30" each

#### SPECIFIC PREP-THURSDAY

#### THEMES: GENERAL, GENERAL ENDURANCE, INJURY PREVENTION

- Warmup
- Technique
  - Triple Jump (7-9 Step)
  - High Jump (6 Step) (if LJ/TJ combo)
- General Strength
  - Circuit 1: Theme- Core
  - Circuit 2: Theme- Muscular Balance/Coordination
- Specialized Calisthenic
  - Variety of Toe Raises/Squat/Lunge Movements

#### SPECIFIC PREP- FRIDAY

#### THEME: N/M- HIGH, COORDINATION/ POWER DEVELOPMENT, \*YIELDING

- WarmupSpeed Development \*\*\*Alternate S-F-S with Depth Jumps
  - Sprint-Float-Sprint
    - ▶ Begin at 90m (50-20-20) Note: (first ~40m on curve)  $x \sim 5/R = 6-10'$ ???
    - Note: quality assurance- rest- balancing enough to assure quality, but also factoring excitation levels
    - Note: quality assurance- shoot for 5, but don't be afraid to cut it short if you perceive effort is there, but quality is fading. 4 good ones is okay.
- Multi-Jumps \*\*\*Alternate Depth Jumps with S-F-S
  - ▶ Depth Jumps x ~20 \*\*\* Alternate MJ's on Mon-Fri or Wed)
    - ▶ Box+SLJ, Box+HH, Box+Box+SLJ, Box+Box+HH
- Weights
  - ▶ Clean: 6x3 Note: Heavy Today after being "Primed" by Heavy N/M work on the Track
  - > Stepups: 4x6 Note: Getting closer to season so introduces some unilateral exercises
  - Dumbbell Incline Press: 4x6
- Multi-Throws \*\*\*Only if no MJ
  - ▶ Throws from Toeboard (OHB,BLF,HHT): ~18
- Myofascial Stretching
  - ▶ 3-4 Selected Stretches: 3x30" each

#### SPECIFIC PREP-SATURDAY

#### THEME: GENERAL, ENERGY/ENDOCRINE SYSTEM DEVELOPMENT, INJURY PREVENTION

- Warmup
- Sprint Technique
  - Buildup Runs: 4x50m
- Tempo Running
  - "Breakdown" 1x300, 2x250, 2x200m / R=5"
- Medicine Ball Circuit
- Or
- General Strength
  - I. "Core"
  - II. Connective Tissue

# EARLY COMPETITION II- EXAMPLE

- MONDAY- THEMES: N/M- HIGH, SHORT DURATION
  - WU + ACCELS + WEIGHTS
- ▶ TUESDAY- THEMES: GENERAL, ENDOCRINE SYSTEM
  - WU + TECH + GS CIRCUITS
- WEDNESDAY- THEMES: N/M- HIGH, LONG
  - WU + APPROACH + SPEED ENDURANCE + WEIGHTS
- ▶ THURSDAY- THEMES: GENERAL, REHAB
  - WU + TECH + GS FOR EVALUATION
- FRIDAY- THEMES: N/M- COMP PR
  - WU + BLOCKS + CLEANS
- SATURDAY- COMP

# LATE COMPETITION II- EXAMPLE

- MONDAY- THEMES: GENERAL, REHABILITATION
  - WARMUP + THERAPY
- ▶ TUESDAY- THEMES: N/M- HIGH, SHORT DURATION
  - WU + ACCELS + MJ + WEIGHTS
- ▶ WEDNESDAY- THEMES: N/M (HIGH TECH) > GENERAL, ENDOCRINE SYST.
  - WU + APPROACH + MED BALL CIRCUIT + WEIGHT CIRCUIT
- > THURSDAY- THEMES: GENERAL, REST
  - WU ONLY
- FRIDAY- THEMES: N/M- COMP PREP
  - ▶ REMEDIAL BOUNDS + MULTI-THROW
- SATURDAY- COMP



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