Long Jump



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- Planning
- Speed Development
- Strength
- Technique

Identifying Jumpers on your Team & Beyond

- Multi sport athlete vs Specialization
 - Observe
 - Horizontal Jumpers
 Speed and power
- Training philosophy

Planning Ahead • Long term vs Short term • Practice Session – Day – Week – Month – Year to year • Challenges • Patience – Results don't happen overnight • Every training program begins simple and becomes specific! Planning Begin with a solid base training plan General Prep: Strength, flexibility, conditioning, etc. • Keep in mind: weather & facilities – be adaptable • Length of season • Nutrition • Restoration / Recovery Planning • Risk vs Reward • Goals and Needs of the Athlete • Event Spacing Variety • Practice vs competition

Speed Kills • The most important aspect of the horizontal jumps • Be specific in everything you do! • Speed through the board into the take-off • Optimal take-off position • Accuracy - "Every inch counts" Speed Development • Train to be fast! • Wickets • FS • SS • Sled • Blocks • Blocks + sled • Body position is key Speed Development • Volume vs Intensity • Timing Control • Body position Consistency

Strength • #1 Key to success is increasing strength Goal: Achieve higher force production • What is the best way? \bullet The highest forces are generated during eccentric muscular action Stretch-shortening cycle (Plyometric Training) Elastic Strength • Olympic Lifts • Speed Bounds • Sprinting • Depth Jumps • Bounds • Hops HopsHurdle HopsShort approach jumpsStanding JumpsVertical Jump Test Strength Recording Data Review Improvement / Patience • Strength vs Technically Sound • Durability • Conditioning

Approach • How important is the approach? • A top priority! • What is the main focus? • Teach and develop mechanics all the time • Speed drills carried over to approach development • Efficiency Approach • Where is the best starting point? Turf or grass (flat surface) Advantages Avoid Steering Comfortable Discovery Consistency • Pop ups • Runway vs Turf Approach • Practice an effective approach run early and often • 3 to 6 sessions per week Early in the practice session Mechanics: transition to the runway after proven consistent success - Look for mechanics to carry over to the runway for accuracy $% \left(1\right) =\left(1\right) \left(1\right$ • Prepare for the unpredictable! Weather

Preparing for Flight Maintain Horizontal Velocity • Turnover • Transfer • Attack with Confidence Avoid Gathering/Loading Preparing for Flight • Roll off of the foot (flat) • Pre Recruitment • Penultimate • Body position (tall) Take-off • Speed Transfer • Flat Foot Active vs Passive Center of Mass • Drive Knee & Arms

Flight • Path predetermined • Maximum extension in flight • Hitch vs Hang • Combination • Consistency + Experience Level Landing • Hold the Knee Drive • Lead leg + Extension • Knees to chest (pike) • Continuing forward momentum • Fight for every inch Point of Contacting the Sand • Arm swing + holding Maintain momentum • Slightly collapse & bring the body thru Absorb contact • Torso

Box Take-off Drills • Turf vs track More volume and conditioning • Arms swings • Hamstring-hip activation Active off the ground • Position Knee Drive **Technical Jump Sessions** • Short Approach Long Jump • Put it all together 6 - 12 steps Deciding Step count Rhythm and Timing of jump • Important to record distance/speed and compare previous training Periodization • Train them based on talent, level and tolerance Individualized Training • Simplicity is a key concept • Typically 4 weeks per cycle • Control volume & intensity • Peak when it counts (@Championship season)

Identifying Needs & The Future Ahead • Record data regularly • Previous year in review • New Short/Long Term Goals Common Tests: Hang Clean Standing Jump Flexibility Overhead Shot Short Sprints Etc. Identifying Needs & The Future Ahead • Goal: Avoid overtraining syndrome Restoration / Recovery • Flexibility Improving Flexibility during strength development will result in great muscular force production • Improvement / Patience Training Recommendations • Follow a Progression Plan High knee skips Standing Jumps Box Jumps Take-off / Landing Mini hurdle pop-ups (continuous) Short approach jumps • 2-12 steps

Review	
• Planning	
Speed Development	
Strength	
• Technique	
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Thank you!	
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