

Workout Considerations: Individualization and Grouping

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How to develop speed/power
athletes through sound principles
of training

Neuromuscular System Training: First Things First

- The neuromuscular system adapts best to a certain type of training emphasis
 - ◆ HIGH QUALITY OF WORK: Speed qualities place high demand on CNS
 - ◆ SUFFICIENT RECOVERIES: within workouts and between CNS heavy workouts
 - ◆ MANAGEABLE VOLUMES: high intensities demand reasonable, doable volumes
 - Should not be compromised at the expense of other training modalities.

PHYSICAL PERFORMANCE COMPONENTS

Speed = ability to move the body and its parts rapidly

Strength = the ability to produce large amounts of force

Coordination = ability to perform motor skills with precision

Endurance = ability to perform large workloads and resist fatigue

Flexibility

movement

Compatible Training

- The use of similar training components per session of work
- Utilize neural or physiological concepts to identify the individual type of work being conducted per workout.
- Utilize physical performance characteristics to organize workouts into systematic training units

Complimentary Training

- The use of *successive training sessions* to offer the best training effects sequentially
- The theory that training sessions are **NOT** created independent of one another.
- Training sessions cause a positive effect on subsequent sessions.
- Groups of training sessions cause a longer positive training effect on subsequent groups of workouts.

Multilateral Training

- Defined as the planning of training to include all five of the physical performance characteristics
- **Balance**: Training all five of the physical performance characteristics in order to develop a holistic approach to athletic development
- **Planned Balance**: Balancing the different modalities of training to achieve optimal results
- Need not be equally distributed
- Coach will decide which of the physical performance components are most necessary at any given point in the training program.
- Organizing these modalities around a predetermined plan is most effective.

General Training Principles

- Stimulus and Adaptation
- Training Theory
- Overload
- Reversibility
- Specificity of Adaptation
- Supercompensation
- Variance/Diversification
- Training Age and maturation
- Volume and Intensity
- Density

Specialization

- *Age and experience* of an athlete may dictate overall training plan
- Older, more well developed athletes, will achieve training markers faster and once achieved time spent on this facet of training can be decreased.
- Example: Absolute strength training
- Emphasis in one area must be accompanied by a decrease in another area
- Time can be spent in other areas to achieve a greater level of technical expertise.
- Highly specific training is generally reserved for the latter stages of an annual plan or older athletes

Compatible Training: Neuromuscular Components

- Neural Components
 - ◆ Acceleration : Speed
 - ◆ Max Velocity : Speed
 - ◆ Speed Endurance: Speed
 - ◆ Bilateral Training : Speed/Coordination
 - ◆ Agilities : Speed/Coordination
 - ◆ Plyometrics : Elastic Strength
 - ◆ Olympic Lifts : Power (strength and Speed)
 - ◆ Specific Strength : Strength
 - ◆ Hurdle Rhythm Maintenance (short) :
Speed/Speed Endurance/Coordination
 - ◆ Speed Endurance: Speed/Coordination

Compatible Training: Physiological Components

- Physiological Components
 - ◆ Body Circuits : General Strength
 - ◆ Med Ball Circuits : General Strength/Flex
 - ◆ Core Circuits : General Strength
 - ◆ Combination Circuits: Strength/Endurance
 - ◆ Tempo : Endurance
 - ◆ Fartlek : Endurance
 - ◆ Aerobic Training : Endurance
 - ◆ Static Stretching: Flexibility
 - ◆ Dynamic Stretching: Flexibility/Coordination

Workout Organization: Limiting Factors

- Spatial/Facility Limitations
- Time Constraints
- Coaching Availability and expertise
- Training age of Athletes
- Events: Primary and Secondary
- Seasonal Adjustments (Indoor/Outdoor)
- Injuries and Injury prevention
- Academic Priorities
- External Factors
 - ◆ Holidays etc.

Grouping: Practice Organization

- By Event Groups
- By Age
 - ◆ Chronological
 - ◆ Training Age
- By ability
- By capacity
- By Themes (CNS/Physiological)

Complimentary Events

- What are events that can be grouped in training?
- Jumps/Sprints
- Jumps/Hurdles
- Sprints/Hurdles
- Throws/Sprints

- Why?

Sprints/Hurdles

	<u>Sprinters</u>	<u>Hurdlers</u>
◆ Monday	Acceleration/Speed	Short Hurdle Work
◆ Tuesday	GS	GS
◆ Wednesday	SD/Relays/LS work	Long Hurdle Work
◆ Thursday	GS	GS
◆ Friday	Pre-Meet	Pre-Meet
◆ Saturday	Competition	Competition

- ◆ Hurdlers make great curve runners on relays
- ◆ Hurdlers are often aggressive by nature, so first leg is an option
- ◆ Organizing by theme is the best way to maximize training loads.

Sprints/Jumps

– Sprinters

Jumps

◆Monday	Acceleration/Speed	Acceleration/Speed
◆Tuesday	GS	Jump Tech/GS
◆Wednesday	SD/Relays/LS work	Approaches/Relays
◆Thursday	GS	GS
◆Friday	Pre-Meet	Pre-Meet
◆Saturday	Competition	Competition

- ◆Relay work should be pre-planned in order to maximize the jumpers contribution to the team/relay process.

Training Priorities: Balancing the Demands on the Individual

- What are your goals for the team as a coach?
- Have those goals been conveyed properly to the individuals?
- Is team success your ultimate goal?
- How do you balance individual achievement with the overall success of the team?
- What are the individual goals and expectations of the athlete regarding your coaching style and demands?

THANK YOU

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