PROFILENCE



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INTRODUCTION

BECOME THE EXPERI

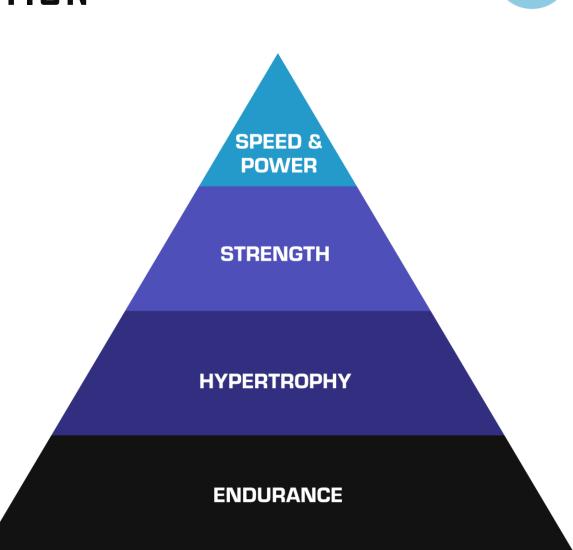
The development of strength is the foundation of physical performance because, before all else, you need the strength in your structures to support the fundamental movements that you carry out each day.

This content is taken from our Programming & Periodization course – you can find the link on the last page of this document.

Note: Periodization is the systematic development of progressive cycles or blocks of training that aim to elicit peak performance at a specific time (competition).

When we program resistance training, aka strength training, we often take a traditional, linear approach to the periodization.

This model starts with high volume and low intensity, and gradually working towards low volume and high intensity.





STRUCTURING A STRENGTH SESSION



| Phase | Example | | |
|--|---|--|--|
| Warm-Up | Raise / Activate & Mobilise / Potentiate. | | |
| Plyometrics / Ballistic Training / Complex Lifts | Jumps & Throws / Weightlifting | | |
| Primary Lifts | Compound Lift – of most importance | | |
| Assistance / Accessory Lifts | Compound Lifts – work to develop the primary lift or sporting action. | | |
| Auxiliary Lifts | Single Joint / Isolation Exercises – work to develop the primary lift or sporting action. | | |
| Stability | Rotational Movements & Isometric Holds – often core/trunk work or proprioceptive work. | | |
| Cool Down / Mobility | Low Intensity Cardio / Rolling & Stretching | | |



RESISTANCE TRAINING REP RANGES



To elicit adaptations, we need to invoke stress and stress comes in a variety of forms.

When we add load to the body:

- Our neuromuscular system is required to work harder to contract the muscles **Neuromuscular stress**.
- Our energy systems have to work harder to fuel the contractions Metabolic Stress.

Greater neuromuscular stress is created when we lift heavier loads and this elicits greater strength development. When we lift lighter loads for much higher rep ranges, the repeated efforts require more fuel. Therefore, we develop muscular endurance. Hypertrophy could be seen as a goldilocks zone between neuromuscular and metabolic stress and is optimal for the development of muscle mass.

| Strength | Hypertrophy | Endurance | |
|----------|-------------|-----------|--|
| 1-5 Reps | 6-12 Reps | 12+ Reps | |

1RM ESTIMATIONS

BECOME THE EXPERT



Note: The higher the rep range, the less accurate the 1RM estimate becomes.

| % Estimations | Coefficients |
|----------------------|--------------|
| 2RM = 94-96% of 1RM | 2RM x 1.05 |
| 3RM = 91-93% of 1RM | 3RM x 1.11 |
| 5RM = 85-88% of 1RM | 5RM x 1.16 |
| 8RM = 80-82% of 1RM | 8RM x 1.24 |
| 10RM = 75-77% of 1RM | 10RM x 1.33 |





STRENGTH TRAINING PERCENTAGES

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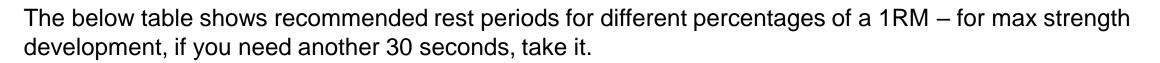


Here are some recommended rep ranges for strength, hypertrophy and endurance:

| Quality | Percentage of 1RM | Recommended Reps | |
|-------------------------|-------------------|-------------------------|--|
| Max Strength | 95%+ | 1-2 Reps | |
| | 90% | 1-3 Reps | |
| | 85% | 2-5 Reps | |
| Strength & Hypertrophy | 80% | 3-6 Reps | |
| | 75% | 5-8 Reps | |
| Hypertrophy & Endurance | 70% | 8-10 Reps | |
| | 65% | 10-15 Reps | |
| Endurance | 50-60% | 15+ Reps | |



REST PERIODS: STRENGTH



| Quality | Intensity/Load | Rest Period |
|---|----------------|----------------|
| Max Strength | 85%+ | 3-5+ Minutes |
| Sub-Max Strength (Strength-Speed) | 70-85% | 2-3 Minutes |
| Sub-Max Strength (Hypertrophy & Endurance) | 50-80% | 1-2 Minutes |
| Ballistic Training (Speed-Strength) | 30-60% | 30-120 Seconds |
| Stability | N/A | 10-60 Seconds |



THE RPE SCALE



The simplest way to quantify the intensity of a set or training session is to use the RPE scale of 1-10 – Rating of Perceived Exertion.

The RPE scale often uses a 1-12 or 1-20 scale. However, the 1-10 scale allows you to easily translate the numbers into percentages which can be more intuitive to athletes.

| RPE | Intensity | | |
|-----|---------------|--|--|
| 1-2 | Vey easy | | |
| 3 | Easy | | |
| 4 | Moderate | | |
| 5-6 | Somewhat hard | | |
| 7-8 | Hard | | |
| 9 | Very Hard | | |
| 10 | Maximal | | |



RPE EXAMPLES



Here's a table demonstrating how the RPE scale can relate to percentages of your 1RM:

| | 85% | 87.5% | 90% | 95% | 100% |
|--------|---------|---------|---------|---------|--------|
| 1 Rep | RPE 8 | RPE 8.5 | RPE 9 | RPE 9.5 | RPE 10 |
| 2 Reps | RPE 8.5 | RPE 9 | RPE 9.5 | RPE 10 | |
| 3 Reps | RPE 9 | RPE 9.5 | RPE 10 | | |
| 4 Reps | RPE 9.5 | RPE 10 | | | |
| 5 Reps | RPE 10 | | | | |



PROGRAMMING & PERIODIZATION

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"When it comes to most things in life, having a good plan is fundamental to success, and this is definitely true for physical training and sport.

Yes, athletes can achieve huge success with a little hard work and a lot of consistency. However, when it comes to long-term development, there is no doubt that we benefit from taking a systematic approach.

No plan is perfect simply because there are too many variables. However, our aim is to create a plan that is optimal in the given time and environment - these plans are live documents that are continually reviewed and developed.

Although no plan is ever perfect, top sports scientists and coaches from around the world have dedicated their lives to creating what they believe to be the optimal planning models. This has left us with an incredible amount of data, and we can use this data to design intelligent plans that elicit the highest results."

Here's the link to the full course: **50% Off!** <u>https://courses.strengthandconditioningcourse.com/p/programming-periodization-big8-no1-members</u>

PROGRAMMING & PERIODIZATION





HOPE YOU ENJOYED OUR CONTENT



