

nasm corrective exercise pdf

nasm corrective exercise pdf is a highly sought-after resource for fitness professionals and individuals looking to address movement dysfunctions and improve physical performance. This comprehensive guide delves into the principles and practical applications of corrective exercise, drawing directly from the National Academy of Sports Medicine's (NASM) renowned methodology. Understanding how to identify, assess, and implement targeted exercises is crucial for preventing injuries, enhancing athletic capabilities, and facilitating rehabilitation. This article will explore the core components of the NASM corrective exercise continuum, essential assessment techniques, common movement compensations, and effective strategies for designing personalized corrective exercise programs, all aligned with the insights found within a typical NASM corrective exercise PDF.

Understanding the NASM Corrective Exercise Philosophy

The foundation of NASM's approach to corrective exercise lies in a systematic and evidence-based methodology designed to identify and rectify muscle imbalances and movement dysfunctions. This philosophy emphasizes a holistic understanding of the kinetic chain, recognizing that issues in one part of the body can manifest as problems elsewhere. The goal is not merely to alleviate pain but to restore optimal neuromuscular control, muscular strength, and flexibility, thereby enhancing overall functional movement.

The Importance of Assessment in Corrective Exercise

Before any corrective exercise program can be effectively implemented, a thorough assessment is paramount. This stage involves identifying postural distortions, movement compensations, and areas of muscle overactivity or underactivity. The NASM OPT (Optimum Performance Training) model, often detailed in NASM corrective exercise PDF materials, provides a structured framework for this

assessment process.

Postural Assessments

Postural assessments, such as the Static Postural Assessment, evaluate an individual's alignment in a static, non-moving state. This involves observing landmarks like the head, shoulders, rib cage, pelvis, knees, and ankles for deviations from the ideal neutral position.

Movement Assessments

Dynamic assessments, like the Overhead Squat Assessment, are crucial for observing how the body moves under load and stress. These assessments reveal kinetic chain dysfunctions that may not be apparent during static observation. Common compensations identified include overpronation of the feet, excessive forward lean, and inward-turning knees.

Identifying Muscle Imbalances and Overactive/Underactive Muscles

A key aspect of the NASM corrective exercise approach is pinpointing which muscles are overactive (tight and shortened) and which are underactive (weak and lengthened). This understanding guides the selection of appropriate corrective strategies.

Common Overactive Muscles

Certain muscles are prone to becoming overactive due to prolonged sitting, repetitive movements, or poor biomechanics. Examples often cited in NASM corrective exercise PDF resources include the hip flexors, quadriceps, gastrocnemius, soleus, and upper trapezius.

Common Underactive Muscles

Conversely, other muscles may become underactive and weak, leading to compensatory actions by other muscle groups. Frequently identified underactive muscles include the gluteus maximus, gluteus medius, transverse abdominis, and rhomboids.

The NASM Corrective Exercise Continuum

The NASM corrective exercise continuum provides a structured, multi-phase approach to program design. This continuum ensures that clients progress safely and effectively from addressing immediate dysfunctions to building a resilient and high-performing body.

Phase 1: Inhibit

This initial phase focuses on reducing neural drive to overactive soft tissues. The primary goal is to decrease muscle tension and improve tissue extensibility, making it easier for the muscle to lengthen.

Self-Myofascial Release (SMR)

SMR, commonly known as foam rolling, is a technique used to release muscle tightness and trigger points. Techniques involve applying pressure to specific areas of the body, holding for 30 seconds, and repeating as needed.

Static Stretching

Static stretching involves holding a stretch for a sustained period, typically 30 seconds, to increase the length of muscles and improve range of motion. This is performed after SMR to further lengthen the

inhibited muscles.

Phase 2: Lengthen

This phase aims to increase the extensibility of the soft tissues that have been identified as tight and overactive. It builds upon the work done in the inhibition phase.

Sustaining Static Stretching

Sustained static stretching holds are often longer in this phase, ensuring the muscle fibers are effectively lengthened. This helps to restore normal muscle length-tension relationships.

Neuromuscular Stretching

Techniques like Proprioceptive Neuromuscular Facilitation (PNF) stretching can also be employed here to achieve greater gains in flexibility by utilizing the body's proprioceptive feedback mechanisms.

Phase 3: Activate

The activation phase focuses on re-engaging and strengthening the underactive or weakened muscles. This is crucial for restoring proper muscle function and balance.

Isolated Strengthening Exercises

These exercises target specific underactive muscles with low-load, high-repetition movements. Examples include glute bridges, quadruped hip extensions, and band pull-aparts.

Isometric Contractions

These contractions involve muscle activation without a change in muscle length, which can be particularly effective in re-establishing neural drive to weakened muscles.

Phase 4: Integrate

The final phase of the continuum involves integrating the newly strengthened and lengthened muscles into functional movement patterns. This ensures that the corrective strategies translate into improved everyday activities and athletic performance.

Integrated Dynamic Movement Exercises

These exercises combine multiple joint movements and muscle actions to mimic real-world activities. Examples include lunges, step-ups, and medicine ball throws.

Functional Training

The ultimate goal is to transition clients back to their desired activities, whether it's sports, daily life, or specific fitness goals, with improved biomechanics and reduced risk of injury.

Common Movement Compensations and Corrective Strategies

Understanding prevalent movement compensations is essential for effective corrective exercise programming. NASM corrective exercise PDF documents often highlight these common issues and provide targeted solutions.

Overhead Squat Assessment Compensations

The Overhead Squat Assessment is a powerful tool for revealing kinetic chain dysfunctions.

Knees Bow In (Valgus Stress)

This compensation often indicates weakness in the gluteus medius and external rotators of the hip, coupled with tightness in the adductors and TFL. Corrective strategies involve inhibiting adductors and TFL, lengthening hamstrings, activating gluteus medius and external rotators, and integrating exercises like lateral band walks and single-leg squats.

Low Back Arches

This may suggest overactive hip flexors and erector spinae, with underactive gluteus maximus and abdominals. Inhibition of hip flexors, lengthening of the posterior chain, activation of the gluteus maximus and transverse abdominis, and integrated exercises like glute bridges and planks are recommended.

Feet Flatten (Overpronation)

Common causes include tight gastrocnemius and soleus, with weak anterior and posterior tibialis. Strategies involve inhibiting the calf muscles, lengthening the tibialis anterior, activating the tibialis posterior and anterior, and integrating exercises like calf raises and single-leg balance exercises.

Other Common Movement Dysfunctions

Beyond the overhead squat, other common issues require attention.

Forward Head Posture

Often linked to tight pectoralis minor and anterior deltoids, with weak deep cervical flexors and rhomboids. Corrective approaches include SMR and stretching of the chest and anterior shoulder, followed by activation of the deep cervical flexors and rhomboids, and integrated exercises like chin tucks and prone cobra.

Rounded Shoulders

Similar to forward head posture, this involves tight pectorals and anterior deltoids, with weak rhomboids and lower trapezius. The corrective strategies mirror those for forward head posture, emphasizing thoracic extension and scapular retraction exercises.

Designing a NASM-Based Corrective Exercise Program

Creating an effective corrective exercise program requires a systematic approach, integrating the principles and phases discussed.

Steps to Program Design

1. Initial Assessment: Conduct thorough static and dynamic postural and movement assessments.
2. Identify Dysfunctions: Pinpoint all observed compensations and associated overactive and underactive muscles.
3. Prioritize: Address the most significant and impactful dysfunctions first.
4. Apply the Continuum: Systematically move through the Inhibit, Lengthen, Activate, and Integrate phases for each identified dysfunction.
5. Select Exercises: Choose appropriate exercises for each phase, referencing NASM protocols.
6. Progression: Gradually increase the intensity, volume, and complexity of exercises as the client

improves.

7. Reassessment: Regularly re-assess the client to monitor progress and adjust the program as needed.

Tools and Resources

Access to a NASM corrective exercise PDF or similar educational material is invaluable for understanding the specific exercise protocols, contraindications, and progression guidelines. This ensures a safe and effective program is implemented.

By diligently applying the principles outlined within NASM's corrective exercise framework, fitness professionals can empower their clients to move better, feel better, and perform at their peak, minimizing the risk of injury and maximizing their potential.

Frequently Asked Questions

Where can I find the most up-to-date NASM Corrective Exercise Specialist (CES) PDF?

The official and most up-to-date NASM CES PDF is typically available for purchase or as part of a course enrollment directly through the National Academy of Sports Medicine (NASM) website. Be cautious of unofficial or outdated PDFs found elsewhere, as they may not reflect the latest scientific research or NASM's current curriculum.

What are the key topics covered in the NASM Corrective Exercise Specialist (CES) PDF?

The NASM CES PDF generally covers the fundamental principles of corrective exercise, including postural assessment, movement assessments (like the overhead squat assessment), identifying

common postural distortions and movement dysfunctions, and implementing corrective exercise strategies to address these issues. It delves into the kinetic chain, muscle imbalances, and program design for clients with various musculoskeletal complaints.

Is the NASM CES PDF a study guide for the certification exam?

Yes, the NASM CES PDF often serves as the primary study material for the NASM Corrective Exercise Specialist certification exam. It provides the foundational knowledge and practical application skills necessary to understand, assess, and correct movement dysfunctions.

Can I access the NASM CES PDF on multiple devices?

Access to the NASM CES PDF depends on how it's delivered. If purchased as part of an online course, you might be able to access it through a learning portal on multiple devices. If it's a downloadable PDF, you can save and view it on any device that supports PDF readers.

What are the benefits of studying the NASM Corrective Exercise Specialist PDF?

Studying the NASM CES PDF equips fitness professionals with the skills to identify and address common movement limitations and pain points in clients. This allows for more personalized programming, improved client results, reduced risk of injury, and enhanced career opportunities in the fitness and rehabilitation space.

How does the NASM CES PDF relate to other NASM certifications like the CPT?

The NASM CES PDF builds upon the foundational knowledge provided in the NASM Certified Personal Trainer (CPT) certification. While the CPT covers general fitness and program design, the CES delves deeper into the assessment and correction of specific movement dysfunctions and imbalances, making it a specialized credential for trainers seeking to work with clients experiencing pain or limitations.

Additional Resources

Here are 9 book titles related to NASM corrective exercise, with descriptions:

1. *Corrective Exercise for the Athlete*

This book delves into the specific demands and injury risks faced by athletes. It provides a comprehensive framework for identifying and addressing common movement dysfunctions that can hinder performance and lead to injuries. Expect detailed assessments and targeted exercise prescriptions designed to improve athletic capabilities and resilience.

2. *Functional Movement Systems: Screening, Assessment, Correction*

While not exclusively NASM, this foundational text introduces a widely respected system for assessing movement. It explains how to identify asymmetries and limitations through the Functional Movement Screen (FMS) and then provides strategies for corrective action. The book bridges the gap between assessment and practical application for improving kinetic chain function.

3. *NASM Essentials of Corrective Exercise*

This is the core resource for understanding the NASM corrective exercise continuum. It meticulously outlines the process of identifying postural distortions, movement compensations, and muscle imbalances. The book guides readers through the steps of designing and implementing personalized corrective exercise programs.

4. *Rehab and Mobility: Exercises for Pain-Free Movement*

This practical guide focuses on using mobility exercises as a cornerstone of corrective strategies. It highlights the importance of joint mobility and soft tissue quality in preventing and resolving pain. Readers will find a wealth of exercises for improving range of motion and releasing muscle tightness, essential for any corrective program.

5. *Understanding the Kinetic Chain: A Holistic Approach to Movement*

This book emphasizes the interconnectedness of the body's biomechanical system. It explains how dysfunctions in one area can impact movement and lead to pain elsewhere. The text provides a deeper understanding of how to analyze movement patterns and address root causes of issues,

aligning with NASM's integrated approach.

6. *The Postural Restoration Institute: Manual of Exercises*

This resource offers a detailed collection of exercises designed to restore proper postural alignment and breathing mechanics. It focuses on retraining the neuromuscular system to promote efficient and balanced movement patterns. The manual is invaluable for practitioners seeking to address chronic postural issues and their impact on the kinetic chain.

7. *The Biomechanics of Sports and Exercise*

To effectively implement corrective exercise, a strong understanding of biomechanics is crucial. This book breaks down the forces and principles governing human movement during physical activity. It provides the scientific underpinnings for understanding why certain exercises are corrective and how they impact the body.

8. *Integrated Flexibility and Mobility Strategies*

Flexibility and mobility are critical components of corrective exercise. This book explores various techniques, from static stretching to dynamic mobilization, to improve range of motion and tissue extensibility. It offers a comprehensive toolkit for addressing muscle tightness and improving joint function as part of a corrective plan.

9. *The NASM-CNC (Certified Nutrition Coach) Companion Guide*

While not solely corrective exercise, nutrition plays a significant role in recovery and tissue health, impacting the success of any corrective program. This guide explores the principles of sports nutrition and how diet can influence inflammation, muscle repair, and overall well-being. It provides a holistic perspective, recognizing that corrective exercise is often part of a broader health and fitness strategy.

[Nasm Corrective Exercise Pdf](#)

NASM Corrective Exercise Specialist Certification: A Deep Dive into Movement Dysfunction and Remediation

This ebook provides a comprehensive overview of the NASM Corrective Exercise Specialist (CES) certification, exploring its core principles, practical application, and significance in addressing movement impairments and optimizing human performance. It details the importance of understanding movement dysfunction, utilizing effective assessment techniques, and designing individualized corrective exercise programs based on the NASM Optimum Performance Training (OPT) model. We'll delve into the latest research supporting these methods and offer practical tips for implementing corrective exercise strategies in various settings.

Ebook Title: Mastering Corrective Exercise: A Guide to the NASM CES Certification

Table of Contents:

Introduction: Understanding the Importance of Corrective Exercise

Chapter 1: Foundational Knowledge - Human Movement Science: Anatomy, Biomechanics, and Kinesiology

Chapter 2: Movement Assessment and Program Design: The OPT Model and its Application to Corrective Exercise

Chapter 3: Common Movement Dysfunctions: Identifying and Addressing Postural Deviations and Muscle Imbalances

Chapter 4: Corrective Exercise Techniques: Specific Exercises and Progressions for Various Dysfunctions

Chapter 5: Special Populations: Adapting Corrective Exercise Programs for Diverse Clients

Chapter 6: Program Implementation and Progression: Monitoring Progress and Making Adjustments

Chapter 7: Case Studies and Practical Application: Real-world examples of corrective exercise program design and implementation.

Conclusion: The Future of Corrective Exercise and its Role in Holistic Wellness

Detailed Outline Explanation:

Introduction: This section establishes the significance of corrective exercise in preventing injuries, improving performance, and enhancing overall well-being. It highlights the role of the NASM CES certification in providing a structured and evidence-based approach to addressing movement dysfunctions.

Chapter 1: Foundational Knowledge - Human Movement Science: This chapter lays the groundwork by reviewing essential anatomical structures, biomechanical principles, and kinesiological concepts critical to understanding human movement. Understanding muscle origins, insertions, actions, and lever systems is paramount for effective corrective exercise programming.

Chapter 2: Movement Assessment and Program Design: This chapter introduces the NASM OPT model, a systematic approach to exercise programming that integrates flexibility, strength, and power training. It explains how the OPT model is adapted and applied within the context of corrective exercise to address specific movement impairments. Key assessments like the Overhead

Squat Assessment are discussed in detail.

Chapter 3: Common Movement Dysfunctions: This chapter focuses on identifying and classifying common postural deviations and muscle imbalances. It explores the causes and consequences of these dysfunctions, providing a detailed understanding of conditions such as kyphosis, lordosis, and scoliosis, and associated muscle imbalances.

Chapter 4: Corrective Exercise Techniques: This is a practical section demonstrating specific corrective exercise techniques targeting common movement dysfunctions. It details appropriate exercise progressions, emphasizing proper form and technique to maximize effectiveness and minimize the risk of injury. Examples include exercises to improve shoulder mobility, core stability, and hip flexibility.

Chapter 5: Special Populations: This chapter addresses the unique needs of special populations, such as pregnant women, older adults, and individuals with specific medical conditions. It emphasizes adapting corrective exercise programs to account for individual limitations and safety considerations.

Chapter 6: Program Implementation and Progression: This chapter covers the practical aspects of implementing and progressing corrective exercise programs. It focuses on the importance of client education, program monitoring, and making necessary adjustments based on client progress and response. It also covers methods for measuring progress and modifying programs as needed.

Chapter 7: Case Studies and Practical Application: This section provides real-world examples of corrective exercise program design and implementation. It showcases the application of the principles and techniques discussed throughout the ebook, illustrating the practical application of assessment and treatment.

Conclusion: This section summarizes the key takeaways from the ebook, reiterating the importance of corrective exercise in promoting optimal health and performance. It also looks towards future trends and advancements in the field of corrective exercise.

Keywords: NASM CES, Corrective Exercise, OPT Model, Movement Dysfunction, Muscle Imbalance, Postural Deviation, Human Movement Science, Exercise Program Design, Assessment Techniques, Special Populations, Corrective Exercise Specialist, NASM Corrective Exercise PDF, Functional Movement, Injury Prevention, Performance Enhancement

Frequently Asked Questions (FAQs)

1. What is the NASM Corrective Exercise Specialist Certification? It's a nationally recognized certification that equips fitness professionals with the knowledge and skills to identify and address movement impairments through tailored exercise programs.
2. Who should get the NASM CES Certification? Personal trainers, physical therapists, athletic trainers, and other fitness professionals seeking to enhance their expertise in addressing movement limitations.
3. What are the benefits of obtaining the NASM CES Certification? Increased career opportunities, enhanced client outcomes, improved professional credibility, and a deeper understanding of human movement.
4. What is the OPT model and its relevance to corrective exercise? The Optimum Performance Training (OPT) model is a systematic approach that provides a framework for designing exercise programs, including corrective exercises, to improve flexibility, strength, and power.
5. How much does the NASM CES Certification cost? The cost varies depending on the package and provider; check the official NASM website for the most up-to-date pricing.
6. How long does it take to complete the NASM CES Certification? The time commitment varies but typically involves self-study, practical application, and exam preparation.
7. Are there prerequisites for the NASM CES Certification? Generally, a previous certification like NASM Certified Personal Trainer (CPT) is recommended.
8. What kind of job opportunities are available after obtaining the NASM CES Certification? You could work in gyms, fitness centers, physical therapy clinics, corporate wellness programs, or as an independent corrective exercise specialist.
9. Where can I find more information about the NASM CES Certification? Visit the official NASM website for detailed information about the certification, course content, and registration.

Related Articles:

1. The Overhead Squat Assessment: Identifying Movement Dysfunctions: This article explores the overhead squat assessment, a crucial tool for identifying movement limitations and designing corrective exercises.
2. Understanding Muscle Imbalances and Their Impact on Movement: A detailed explanation of how muscle imbalances contribute to movement dysfunction and injury.
3. The Role of Flexibility in Corrective Exercise: This piece emphasizes the importance of flexibility training in the corrective exercise process and details various stretching techniques.
4. Core Stability and its Importance in Movement Efficiency: A comprehensive exploration of core stability and its crucial role in preventing injuries and improving overall movement patterns.

5. Designing Corrective Exercise Programs for Specific Postural Deviations: This article provides practical guidance on creating tailored corrective programs for common postural deviations like kyphosis and lordosis.
6. Integrating Corrective Exercise into Strength Training Programs: This discusses the seamless integration of corrective exercises within broader strength training programs.
7. The Importance of Client Education in Corrective Exercise: Highlights the significance of educating clients about their movement dysfunctions and the rationale behind their corrective exercise programs.
8. Case Study: Corrective Exercise for a Client with Low Back Pain: A detailed case study showcasing the practical application of corrective exercise principles in addressing low back pain.
9. The Future of Corrective Exercise and Technological Advancements: This article explores emerging technologies and their potential applications in the field of corrective exercise.

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nasm corrective exercise pdf: *Corrective Exercise: A Practical Approach* Kesh Patel, 2014-05-01 Corrective and functional exercise is a rapidly advancing field. Exercise is an essential factor in all injury recovery, conditioning and performance, and if used correctly can play a preventative role in injury management. In the injured athlete, gym user or armchair athlete, corrective exercise can help to restore range of motion, re-build strength, endurance and power, re-establish neuromuscular control and balance, and provide positive progress for a specific sport or a healthier lifestyle. Written by an experienced specialist in the field of rehabilitative and performance exercise, this book provides an essential practical guide to corrective and functional exercise for every sports therapist and fitness trainer, particularly those taking diplomas or NVQs at level 3. Packed with photos and illustrations, and full of accessible step-by-step explanations of the latest rehabilitative methods, every corrective and functional technique is covered in detail, from initial consultation to whole body exercises.

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nasm corrective exercise pdf: [NSCA's Guide to Tests and Assessments](#) NSCA -National Strength & Conditioning Association, Todd A. Miller, 2012-01-25 *NSCA's Guide to Tests and Assessments* offers strength and conditioning professionals a one-stop resource for the best research-supported fitness and performance measures available. Created by top experts in the National Strength and Conditioning Association (NSCA), this comprehensive text offers extensive information on which factors matter and how to evaluate them as accurately and easily as possible. Editor Todd Miller and an authoritative team of contributors have compiled an exceptional reference and valuable tool for practicing professionals and an indispensable educational resource for students. *NSCA's Guide to Tests and Assessments* presents the latest research from respected scientists and practitioners in exercise testing and assessment. The text begins with an introduction to testing, data analysis, and formulating conclusions. It then features a by-chapter presentation of tests and assessments for body composition, heart rate and blood pressure, metabolic rate, aerobic power, lactate threshold, muscular strength, muscular endurance, power, speed and agility, mobility, and balance and stability. Using descriptions of multiple test options for each key fitness component, readers will learn to choose from a range of alternatives to meet the needs of their athletes, reach training objectives, choose from available equipment, and work within budgets. Each chapter provides a summary detailing the key testing and assessment information for each fitness component, the equipment needed for performing the tests, step-by-step instructions, normative data for the tests, and multiple test options per conditioning component. Insights into the applications of testing for certain fitness components are also presented: • The value of body

composition assessments in determining health and fitness levels for competitive athletes as well as individuals across the life span • How an understanding of 24-hour energy expenditure can be useful in structuring a complete diet and exercise plan for weight loss, gain, or maintenance • How to select a maximal or submaximal aerobic power test that is specific to the demands of a client's or athlete's sport • Discussion of the mechanical and physiological factors shown to influence the expression of muscular strength • An examination of the relevant factors influencing power production and explosive movement capacity • Differences between mobility and flexibility and a discussion of the acute versus chronic effects of static stretching • Theories and concepts of balance and stability, their effects on performance, and categories of testing for balance and stability NSCA's Guide to Tests and Assessments also includes NSCA-approved testing protocols, extensive references to current research, and applications for the testing of conditioning components. Information is presented in an accessible manner to help explain the findings of both researchers and practitioners so that readers can select the most effective and efficient approach for athlete and client assessments. Properly conducted tests and skillful assessment of data enable fitness professionals to develop individualized training programs based on their clients' or athletes' physiological and functional capacities. Credible, current, and complete, NSCA's Guide to Tests and Assessments provides a clear understanding of the test selection process, how to implement appropriate data collection, and how to analyze data to make appropriate training decisions that will help athletes and clients achieve their performance goals. NSCA's Guide to Tests and Assessments is part of the Science of Strength and Conditioning series. Developed with the expertise of the National Strength and Conditioning Association (NSCA), this series of texts provides the guidelines for converting scientific research into practical application. The series covers topics such as tests and assessments, program design, and nutrition. Earn continuing education credits/units! A continuing education course and exam that uses this book is also available. It may be purchased separately or as part of a package that includes all the course materials and exam.

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perform functional assessment testing for the muscles of posture that can become chronically tight—a principal causative factor in dysfunctional glutes. Therapeutic techniques, including gluteal exercises, show how to correct dysfunction and reduce pain. This book will be of great value to physical therapists, athletes, and anyone interested in bodywork. Table of Contents 1. Putting the Maximus Back into Gluteus Maximus 2. Muscle Imbalance and the Myofascial Slings 3. The Glutes and the Gait Cycle 4. Leg length discrepancy (LLD), Over-Pronation and its effect on the Glutes 5. Functional Anatomy of the Gluteus Maximus (Gmax) 6. Functional Anatomy of the Gluteus Medius (Gmed) 7. Muscle Energy Techniques 8. The Antagonistic Cause - the Vital Psoas, Rectus Femoris and Adductors 9. Gmax and Gmed Causing Knee and Ankle Pain

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California Sports & Industrial Medical Center Anthony Carey's unique approach to promote the proper function of the whole body in order to support and heal the problematic area delivered the results that made me a lifetime believer. I continue to utilize Anthony's techniques to train and heal my body every day. I only wish I would have found his program earlier in my career. --Erik Kramer, former NFL Quarterback

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- A systematic method for the functional examination of the muscular system
- Treatment processes focusing on the triad of normalization of peripheral structures, restoration of muscle balance, and facilitation of afferent systems and sensorimotor training
- The role of muscle imbalance and functional pathology of sensorimotor systems for specific pain complaints, including cervical pain syndrome, upper- and lower-extremity pain syndromes, and low back pain syndromes

Assessment and Treatment of Muscle Imbalance provides an evidence-based explanation of muscle imbalance. The step-by-step Janda system of evaluation is explained—including analysis of posture, balance, and gait; evaluation of movement patterns; testing of muscle length; and assessment of the soft tissue. The text explores treatment options for muscle imbalance through facilitation and inhibition techniques and sensorimotor training to restore neuromuscular function. It also includes four case studies examining musculoskeletal conditions and showing how the Janda approach compares with other treatments. This text combines theory, evidence, and applications to assist clinicians in implementing the Janda approach into their practice.

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 -National Strength & Conditioning Association, 2021-06-01 Developed by the National Strength and Conditioning Association (NSCA) and now in its fourth edition, *Essentials of Strength Training and*

Conditioning is the essential text for strength and conditioning professionals and students. This comprehensive resource, created by 30 expert contributors in the field, explains the key theories, concepts, and scientific principles of strength training and conditioning as well as their direct application to athletic competition and performance. The scope and content of *Essentials of Strength Training and Conditioning, Fourth Edition With HKPropel Access*, have been updated to convey the knowledge, skills, and abilities required of a strength and conditioning professional and to address the latest information found on the Certified Strength and Conditioning Specialist (CSCS) exam. The evidence-based approach and unbeatable accuracy of the text make it the primary resource to rely on for CSCS exam preparation. The text is organized to lead readers from theory to program design and practical strategies for administration and management of strength and conditioning facilities. The fourth edition contains the most current research and applications and several new features: Online videos featuring 21 resistance training exercises demonstrate proper exercise form for classroom and practical use. Updated research—specifically in the areas of high-intensity interval training, overtraining, agility and change of direction, nutrition for health and performance, and periodization—helps readers better understand these popular trends in the industry. A new chapter with instructions and photos presents techniques for exercises using alternative modes and nontraditional implements. Ten additional tests, including those for maximum strength, power, and aerobic capacity, along with new flexibility exercises, resistance training exercises, plyometric exercises, and speed and agility drills help professionals design programs that reflect current guidelines. Key points, chapter objectives, and learning aids including key terms and self-study questions provide a structure to help students and professionals conceptualize the information and reinforce fundamental facts. Application sidebars provide practical application of scientific concepts that can be used by strength and conditioning specialists in real-world settings, making the information immediately relatable and usable. Online learning tools delivered through HKPropel provide students with 11 downloadable lab activities for practice and retention of information. Further, both students and professionals will benefit from the online videos of 21 foundational exercises that provide visual instruction and reinforce proper technique. *Essentials of Strength Training and Conditioning, Fourth Edition*, provides the most comprehensive information on organization and administration of facilities, testing and evaluation, exercise techniques, training adaptations, program design, and structure and function of body systems. Its scope, precision, and dependability make it the essential preparation text for the CSCS exam as well as a definitive reference for strength and conditioning professionals to consult in their everyday practice. Note: A code for accessing HKPropel is not included with this ebook but may be purchased separately.

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