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Suitable both for people setting out to be instructors and for seasoned professionals, this resource provides a guide to the scientific, instructional and professional knowledge required of group fitness instructors. Chapters include: exercise physiology; fundamentals of anatomy; biomechanics and applied kinesiology; nutrition and weight control; health screening; fitness testing and aerobic programming; teaching an aerobic class; special populations and health concerns; exercise and pregnancy; musculoskeletal injuries; emergency procedures; and legal and professional responsibilities. Developed by the National Academy of Sports Medicine (NASM), this book is designed to help people prepare for the NASM Certified Personal Trainer (CPT) Certification exam or learn the basic principles of personal training using NASM's Optimum Performance Training (OPT) model. The OPT model presents NASM's protocols for building stabilization, strength, and power. More than 600 full-color illustrations and photographs demonstrate concepts and techniques. Exercise color coding maps each exercise movement to a specific phase on the OPT model. Exercise boxes demonstrate core exercises and detail the necessary preparation and movement. Other features include research notes, memory joggers, safety tips, and review questions. "This all new fourth edition of ACE's best-selling textbook offers expanded coverage of a personal trainer's primary job responsibility - assessing each client's current level of health and physical fitness and then developing a safe and effective fitness program that will lead to a lifelong commitment to a more active lifestyle and better health."--Back Cover. This book delivers relevant tools that aspiring professionals and industry veterans can apply to the clients of today, including behavior change expertise, coaching philosophy, and new technical standards for fitness. Learn the practices, methods and approach, to becoming the best Group Fitness Instructor you can be. In this book you will learn the F.A.C.T.S. about what it takes to be creative, progressive and professional in order to master this domain. If you are just starting out or if you are a

professional in your own right, you will find something that would be useful for you to develop and encourage you on your journey to being the best you can be. This book is focused on DanceXtreme, a dance fitness program that is based on layering dance moves to music. The same principles can be applied to any other Group Exercise genre. Written and reviewed by top experts in a variety of fields - from exercise physiology and health psychology to business and law - this text is unlike any other resource for group fitness instructors. When coupled with ACE's essentials of exercise science for fitness professionals, the ACE group fitness instructor manual provides foundational knowledge required to pass the ACE certification exam and teach in almost any group setting. Group fitness instruction has expanded well beyond the traditional aerobics classes of years past but whether you teach step training, Pilates, yoga, or any of the other constantly emerging and evolving class types, this third edition of the ACE group fitness instructor manual is not only an excellent study tool as you prepare for the ACE exam, but also a valuable resource that you will refer to for years to come. This is the definitive resource for individuals preparing for the AEA Aquatic Fitness Professional Certification exam and for anyone leading water exercise classes. The Fitness Instructor's Handbook is the essential guide for anyone working in, or wishing to enter, the fitness industry. This new second edition has been fully updated and covers every component of the industry standards for both Level 2 and 3 qualification, and offers the perfect blend of theory and practice on every aspect of health and fitness. Clear, concise and accessible, the content is organised with the specific needs of student and newly qualified fitness professionals in mind - it covers every aspect of the theory needed to work as a fitness instructor, and places it in a practical context. Topics covered include: the skeletal system muscles and tendons the energy system circulation and respiration components of fitness safety issues customer service screening clients planning and programme design exercise evaluation. Packed full of illustrations, case studies, revision questions and sample programmes, The Fitness Instructor's Handbook is the ideal book for both those new to the industry and experienced trainers. The ACE Personal Trainer Manual is an essential study tool for the ACE Personal Trainer Certification Exam and an excellent fitness and exercise resource students will use throughout their health and fitness careers. This Third Edition reflects the latest research findings and industry guidelines in the field of health and fitness. Revised and updated by the original authors and enhanced by the addition of a new chapter on health behavior and psychology, this text covers every aspect of personal training, from anatomy and physiology to injury prevention and legal issues. p-i-l-a-t-e-s Magic Circle Instructor Manual - 49 Exercises over 5 Levels this manual offers a complete guide to performing exercises with the Magic Circle. A fantastic versatile piece of equipment necessary for any Pilates Studio or Fitness Professional. This manual offers a step by step guide to progressing clients with this apparatus. It is an excellent resource for Pilates Instructors and Personal Trainers. A handbook for today's fitness instructor. Group fitness instructors may be expected to offer participants a wide range of activities, such as indoor cycling, yoga and strength training, as well as aerobics. The contributors to this book are experts in a variety of fields, including exercise physiology, psychology and the law. The manual offers the foundation of knowledge necessary to teach fitness in a group setting. Topics covered include: exercise physiology; fundamentals of anatomy and applied kinesiology; nutrition; health screening; designing a group exercise programme; teaching the class; adherence and motivation; disabilities and health limitations; exercise and pregnancy; injury prevention and emergency procedures; and legal and professional responsibilities. A study guide designed to accompany the "ACE Group Fitness Instructor Manual" (2nd. ed.) by providing objectives and vocabulary to help the reader focus on the corresponding chapter in the manual; exercises your ability to apply what you have learned to real-life situations.

The application of this knowledge will support the reader's teaching group exercise and preparing for the examination (p. iv). This workbook emphasizes learning and retention. Clients often find the camaraderie of group training to be engaging and fun, motivating them to commit to regular activity. But participants also appreciate a more personalized experience, with focused attention from the instructor. That's where small-group training comes in. A Professional's Guide to Small-Group Personal Training is a much-needed resource designed to help you successfully lead training sessions for small groups—incorporating group dynamics and your knowledge of training principles to develop business offerings that will create a new stream of revenue. Learn how to apply group dynamics and social interaction to create a comfortable environment for clients who enjoy personal training in a group setting. Develop the skills necessary to quickly modify work for each participant to keep your entire group engaged and progressing toward their fitness goals. Increase client performance, adherence, and enjoyment while growing relationships between yourself and your clients—and your clients' relationships with one another—with proven strategies for success. You'll find 12 sample programs with dynamic warm-ups and cool-downs, all suitable for a variety of needs and fitness goals, that will keep groups moving from beginning to end. Also included are over 70 exercises, complete with descriptions and variations that will enable you to quickly modify exercises for group members who are more advanced or less advanced than the rest of the group. With A Professional's Guide to Small-Group Personal Training, you'll maximize your training hours and increase your revenue potential while creating a fun, safe, and motivating environment for your clients. CE exam available! For certified professionals, a companion continuing education exam can be completed after reading this book. A Professional's Guide to Small-Group Personal Training Online CE Exam may be purchased separately or as part of the A Professional's Guide to Small-Group Personal Training With CE Exam package that includes both the book and the exam. The Fitness Instructor's Handbook, 4th edition, is the ultimate resource for anyone working in, or wishing to enter, the fitness industry. Packed full of illustrations, exercise photos, case studies, revision questions and sample programmes - this guide covers every aspect of the theory needed to work as a fitness instructor. Clear, concise and accessible, the content is organised with the specific needs of the fitness professional in mind and covers topics such as: - The skeletal system - Muscles and tendons - The energy system - Circulation and respiration - Components of fitness - Safety issues - Customer service - Screening clients - Planning and programme design - Exercise evaluation This new edition includes advice on how to avoid poor exercise technique that can increase the risk of injury. There is also a brand new section on field protocols for typical health and fitness tests, with guidance on how instructors can standardise them. Other essential updates are also included that reflect changes to the National Occupational Standards for both Level 2 and 3 qualifications. Offering the perfect blend of theory and practice for every aspect of health and fitness, this is the resource you will refer to time and again. ACE Group Fitness Instructor Manual was designed to prepare fitness professionals to work in group and class settings and is the main study for the ACE Group Fitness Instructor. Developed and written by 17 of the industry's top experts, the ACE Group Fitness Instructor Manual is an excellent resource, addressing the core competencies you need regardless of the types of classes you teach. It provides overviews of nine of the most popular modalities, including aquatic exercise, fitness yoga, and Pilates mat training. Topics range from exercise physiology, anatomy, kinesiology, and health screening to adherence, injury prevention, and legal and professional responsibilities. Special attention has been given to fitness for special populations, including pregnant women and those with significant weight challenges. Companion DVD included. Developed to prepare individuals for a career in fitness. Topics including Exercise Science (e.g.,

anatomy, kinesiology, biomechanics, exercise physiology), Principles of Nutrition and Weight Management, Health Screening and Fitness Assessment, Exercise Program Design, Communication Skills, Behavioral Change, Special Populations, and Legal Considerations. Exercise Technique Manual for Resistance Training, Fourth Edition With HKPropel Online Video, explains 100 resistance training exercises with step-by-step instructions, photos, and online video demonstrations. The exercises in this book are designed to help you master the basic concepts of group exercise instruction by breaking them into manageable concepts that you can apply to real life situations. Each chapter of the study guide is divided into sections. Getting started introduces you to the material, providing objectives and vocabulary words to concentrate on as you read the corresponding chapter in the manual. Expand your knowledge will test your comprehension through a variety of exercises and drills. Show what you know exercises your ability to apply what you have learned to real-life situations. Endorsed by EuropeActive, this text includes fundamentals and best practices of concepts, duties and responsibilities that fitness instructors perform on the job. The content applies to level 3 of the European Qualifications Framework. "Since 1983, AFAA has pioneered and set the fundamental movement standards in the fitness industry. With more than 350,000 certifications issued in 73 countries, AFAA-trained instructors have motivated millions of people toward healthier and happier lives. Through this course, you will acquire the knowledge and practical skills needed to inspire po

Written by more than 30 industry experts, Aquatic Fitness Professional Manual, Sixth Edition, is the most comprehensive and relied-upon resource for fitness professionals, personal trainers, therapists, and facility or program managers who specialize in water exercise. No longer just for seniors, aquatic fitness has emerged at the forefront of new fitness trends as a challenging reduced-impact option for group exercise, small-group fitness, and personal training for all age groups. Straightforward explanations of current concepts in exercise science, applied exercise anatomy and physiology, and updated research on deep-water exercise will assist you in creating and leading safe, effective, and enjoyable exercise programs. This all-in-one aquatic fitness reference is the definitive resource for those preparing for the AEA Aquatic Fitness Professional certification exam. Reorganized for easier study and exam preparation, the sixth edition contains essential foundational information such as the components of physical fitness, group fitness teaching techniques, and AEA Standards and Guidelines.

he brain is the most complex part of the human body. It is the center of intelligence, interprets senses, controls behavior, and initiates body movement. The adult human brain weighs about three pounds is composed of one hundred billion to one trillion neurons. Neurons are specialized cells that use electrical signals to transmit information to other nerve cells, glands, or muscle cells. It is the primary functional unit of the brain. All movement, thoughts, senses, memories, and feelings are the result of signals that pass through these neurons. Attached to the neuron are short, finger-like protuberances called dendrites. Messages are passed from neuron to neuron through the dendrites. Scientists now believe that the brain is able to grow new dendrites and neurons. This is the basis of the Brain Fitness exercises, which were tested over a two-year period by older adults in Port Charlotte, Florida. The brain-stimulating, challenging, novel-enriched activities in Brain Fitness can benefit anyone — regardless of age or cognitive ability.