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Dear Personal Trainer Certification Candidate,

NETA's Personal Trainer Certification is accredited by the National Commission for Certifying Agencies (NCCA). NETA received NCCA accreditation of its Personal Trainer certification by submitting an application demonstrating the program's compliance with the NCCA's *Standards for the Accreditation of Certification Programs*. NCCA is the accrediting body of the Institute for Credentialing Excellence. Since 1977, the NCCA has been accrediting certifying programs based on the highest quality standards in professional certification to ensure the programs adhere to modern standards of practice in the certification industry. The process of earning accreditation is extensive, including the input of many subject matter experts (SMEs) to conduct a practice analysis of the personal trainer's role and responsibilities and to develop the certification exam.

NETA's *The Fitness Professional's Manual*, 5th edition (2018) is an excellent resource to help prepare for the exam. In addition to studying the Manual, NETA also recommends completion of *The Fitness Professional's Workbook for Personal Trainers*, which includes a 50-question Personal Trainer Practice Exam. A series of six online *Personal Trainer Review Modules* may also be purchased to supplement your exam preparations. Visit our website for more information about these recommended study resources. NETA also offers live review workshops, both in-person and virtual, intended to serve as a final review of key topics in preparation for the certification exam.

To successfully prepare for the exam, NETA recommends that candidates devote an appropriate amount of time (e.g., at least 30-45 days) and effort toward self-directed study prior to attending a review workshop or attempting the examination. Self-study time may vary depending on the individual's existing knowledge, the quality of time devoted to study, and the rate at which candidates comprehend the information. Sample 30- and 45-day preparation schedule are provided on page 4. Please Note: NETA's study materials and/or educational services are *not* required to be eligible to sit for the NETA Personal Trainer certification exam. The use of NETA study materials and/or attendance at a live NETA certification review workshop does *not* guarantee a candidate will pass the exam.

In addition, candidates should also review NETA's Personal Trainer exam content outline. This document serves as the foundation from which the certification exam was constructed. This document is available in the <u>Exam</u> <u>Candidate Handbook</u> located on NETA's website, and is also provided on pages 6-13 of this study guide. Take some time to familiarize yourself with the exam content outline. Your preparation for the exam should be focused accordingly.

If you have any questions, please feel free to contact us at 1-800-237-6242 or refer to Frequently Asked Questions at www.netafit.org.

Good luck with your preparations for NETA's NCCA-accredited Personal Trainer certification exam! Sincerely,

NETA's Education Department



NETA Personal Trainer Certification

Study Guide for:

The Fitness Professionals Manual, 5th edition (2018)

Chapter 1 – The Role of the Fitness Professional What you should know: ☐ The role of a personal trainer ☐ Ideal qualities and characteristics ☐ Ethical and professional standards ☐ NETA's Professional Code of Ethics ☐ Continuing education and credible sources of information	Chapter 7 – Exercise Physiology What you should know: ☐ Components of the cardiorespiratory system ☐ Pathway of blood flow through the body/heart ☐ Cardiorespiratory variables, the acute responses during exercise, and long-term adaptations to training ☐ Variables related to oxygen consumption
Chapter 2 – Relationship-Building & Communication Skills What you should know: ☐ Strategies to establish rapport ☐ How to make a positive first impression	 □ The three energy systems and their contributions during exercise □ Anaerobic threshold □ Characteristics of skeletal muscle fiber types
 ☐ The impact of a message ☐ Active, verbal, and nonverbal listening skills ☐ Asking effective questions (e.g., open, closed) ☐ Types of reflective statements 	 □ Neuromuscular system and the motor unit Chapter 8 – Essential Nutrients for Health & Performance What you should know: □ Structure, function and food sources of carbohydrates,
Chapter 3 – Behavior Modification & Motivation What you should know: ☐ Stages of the transtheoretical model ☐ The concept of decisional balance ☐ Factors that influence self-efficacy ☐ Other models of behavioral change ☐ Approaches to setting SMART goals ☐ Action- versus outcome-oriented goals ☐ Strategies to increase motivation and adherence	protein, and fat Understand calories and kilocalories Function and food sources of essential vitamins and minerals Understanding of Dietary Reference Intakes (DRIs) the concept of Recommended Dietary Allowances (RDAs), and Acceptable Macronutrient Distribution Ranges (AMDR) Function of water and fluid intake recommendations
Chapter 4 – Introduction to Wellness Coaching What you should know: ☐ Motivational interviewing (MI) including the spirit, process, guiding principles and core communication skills of MI ☐ Rating rulers	Chapter 9 – Dietary Guidelines What you should know: ☐ The concepts of eating pattern and nutrient-dense food ☐ The Dietary Guidelines for Americans 2015-2020 ☐ Key recommendations of the Guidelines
Chapter 5 – Human Anatomy What you should know: Anatomical location terminology Planes of anatomical movement Functions of the skeletal system	 □ Principles of healthy eating patterns □ Key messages of the MyPlate graphic □ Interpretation of a Nutrition Facts label □ How to calculate percent of calories derived from each macronutrient in a food
 □ Major bones of the skeleton and vertebral column □ Types of articulations/joints □ Types of muscle tissue □ Structure of skeletal muscle □ The sliding filament theory □ Major skeletal muscles throughout the body 	Chapter 10 – Weight Management What you should know: ☐ Metabolism and energy balance ☐ Guidelines for safe weight loss ☐ Findings of the National Weight Control Registry ☐ How to calculate goal body weight
☐ Type of muscle actions and muscle functions Chapter 6 – Applied Kinesiology & Biomechanics What you should know: ☐ Movement terminology	Chapter 12 – Initial Intake & Pre-Participation Screening What you should know: ☐ Components of the Informed Consent document ☐ Physical Activity Readiness Questionnaire (PAR-Q)
 □ Joint actions throughout the body and the corresponding muscles □ Newton's three laws of motion □ Biomechanics of torque □ Types of lever systems □ Principles of applied biomechanics 	 □ Elements of a Health & Lifestyle Questionnaire □ ACSM preparticipation health screening recommendations and algorithm (i.e., logic model) □ Indications for medical clearance □ Risk factors for cardiovascular disease (CVD)



-	r 13 – Health Screening Assessments	Chapter	18 – Programming for Muscular Fitness (continued)
Wh	at you should know:		Guidelines for resistance training programs
	Normal resting heart rate range		Resistance training program models
	Procedures for measuring resting blood pressure		Concept and application of periodization
	Classifications of resting blood pressure		Exercise-specific procedures for the execution of various
	Interpretation of body mass index (BMI)		resistance training exercises
	Standardized circumference measurements		Identify joint actions and primary muscles during various
	Interpretation of waist-to-hip ratio (WHR)		resistance training exercises
Chapte	r 14 – Postural Analysis	Chapter	· 19 – Flexibility Programming
Wh	at you should know:	Wha	at you should know:
	Postural alignment and the kinetic chain		Understand the sensory receptors and their function in
	Factors that affect pelvic alignment		the effect of flexibility training
	Characteristics of various spinal misalignments		Types of stretching exercises and self-myofascial release
	Assessment and interpretation of static posture		Proposed benefits of stretching
	Assessment and interpretation of dynamic posture		Guidelines for flexibility training
	Characteristics of upper and lower cross syndrome		Recommended static stretches for major muscle groups
Chante	r 15 – Health-Related Physical Fitness Assessments		throughout the body
	at you should know:	Chapter	24 – Injury Management & Emergency Response
	Appropriate sequence of fitness testing		at you should know:
	Standardized procedures for skinfold testing and location of		Basic etiology, considerations, and precautions related
_	skinfold sites		to common exercise-related injuries
	Assessment and interpretation of field tests to measure		Immediate care for exercise-related injuries (e.g., PRICE)
_	cardiorespiratory endurance, muscular endurance, and		Strategies to prevent common-exercise related injuries
	flexibility		Signs and symptoms of heat-related disorders.
	Normal ranges of fitness for cardiorespiratory endurance,		Strategies to reduce the risk of heat-related disorders
	muscular endurance, and flexibility		Signs and symptoms of cardiovascular emergencies (e.g.
			heart attack, stroke)
	r 16 – Physical Activity & Health		Emergency response procedures
_	at you should know:	- 1 .	11 12 1111 22 112
님	Health benefits of regular physical activity	-	25 – Medical Conditions & Special Populations
	Key recommendations of the 2008 Physical Activity	vvna	at you should know:
	Guidelines for Americans		Exercise precautions and recommendations related to common medical conditions including asthma, arthritis,
	METs and classification of physical activity intensity Definitions of the five components of health-related physical		diabetes, hypertension, and osteoporosis.
	fitness		Exercise considerations, precautions and
	Principles of training and their application to exercise		recommendations for special populations including
	programs		pregnancy, older adults, and youth/adolescents
	programs		pregnancy, order addits, and youth, addresseries
-	r 17 – Cardiorespiratory Fitness Programming	-	26 – Risk Management for Fitness Professionals
	at you should know:	_	at you should know:
	Elements of a cardiorespiratory exercise session		Legal concepts such as standard of care and negligence
	Objectives and effects of the warm-up		Common liability exposures for fitness professionals
	Objectives and effects of the cool-down		Scope of practice limitations with regard to medical
	Guidelines for cardiorespiratory exercise and FITT		considerations and dietetics
	How to calculate target heart rate using the maximum heart		Risk management strategies for fitness professionals
	rate method and the Karvonen formula		Importance of professional liability insurance
	Rating of perceived exertion (RPE)	Chapter	27 – Documentation & Record Keeping
	Basic types of cardiorespiratory exercise workouts	-	at you should know:
Chapte	r 18 – Programming for Muscular Fitness		The importance of confidentiality of client's personal
Wh	at you should know:	_	information
	Benefits of resistance training	_	Purpose of a waiver and release of liability form
	Types of resistance training exercises		Documentation recommendations for personal trainer
	Closed-chain versus open-chain exercises	_	client files
	General adaptation syndrome		Components of a progress note (i.e., SOAP) and
	Signs and symptoms of overtraining		guidelines to writing appropriate and effective notes



30-Day Personal Trainer Study Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					Day # Countdown	1 (30) Review NETA's Exam Candidate Handbook. Visit: www.netafit.org Read Chapter 1 of Manual
Read Chapter 2 Read Chapter 3 Complete Review Questions	3 (28) Read Chapter 5 Complete Review Questions	4 (27) Read Chapter 6 Complete Review Questions	5 (26) Read Chapter 7 Complete Review Questions	Review Section II: Chapters 5-7	7 (24) Read Chapter 8 Complete Review Questions	8 (23) Read Chapter 9 Complete Review Questions Visit: www.choosemyplate.gov Visit: www.dietaryquidelines.gov
9 (22) Read Chapter 10 Complete Review Questions	10 (21) Chapter 11 Complete Review Questions	Review Section III: Chapters 8-10	Read Chapter 12 Complete Review Questions	Read Chapter 13 Read Chapter 14 Complete Review Questions	14 (17) Read Chapter 15 Complete Review Questions	Review Section IV: Chapters 12-15
16 (15) Read Chapter 16 Complete Review Questions Visit www.health.gov/paguidelines	17 (14) Read Chapter 17 Complete Review Questions	18 (13) Read Chapter 18 Complete Review Questions Practice RT Exercises	19 (12) Read Chapter 19 Complete Review Questions Practice Static Stretches	Review Section V: Chapters 16-19	21(10) Read Chapter 24 Complete Review Questions	Chapter 25 Complete Review Questions
Review Section VII: Chapters 24-25 30(1) PT Workshop (Day 2) - Exam	Read Chapter 26 Complete Review Questions	25(6) Read Chapter 27 Complete Review Questions	Review Section VIII: Chapters 26-27	Practice Exam (optional) Review as needed	Review 28(3)	PT Workshop (Day 1) 29(2)

45-Day Personal Trainer Study Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				Day # Countdown	1 (45) Review NETA's <i>Exam</i> <i>Candidate Handbook</i> . Visit: <u>www.netafit.org</u> Read Chapter 1 of <i>Manual</i>	2 (44) Read Chapter 2 Read Chapter 3 Complete Review Questions
Recovery Day	4 (42) Read Chapter 5 Complete Review Questions	5 (41) Read Chapter 6 Complete Review Questions	6 (40) Read Chapter 7 Complete Review Questions	7 (39) Review Section II: Chapters 5-7	8 (38) Recovery Day	9 (37) Read Chapter 8 Complete Review Questions
Recovery Day	11 (35) Read Chapter 9 Complete Review Questions	12 (34) Visit: www.choosemyplate.gov Visit: www.dietaryquidelines.gov	Recovery Day	14 (32) Read Chapter 10 Complete Review Questions	15 (31) Chapter 11 Complete Review Questions	Review Section III: Chapters 8-10
Recovery Day	18 (28) Read Chapter 12 Complete Review Questions	19 (27) Administer Preparticipation Screening on a friend.	20 (26) Read Chapter 13 Read Chapter 14 Complete Review Questions	21 (25) Read Chapter 15 Complete Review Questions	22 (24) Administer health/fitness assessment on a friend.	23 (23) Review Section IV: Chapters 12-15
Recovery Day	25 (21) Read Chapter 16 Complete Review Questions	26 (20) Visit: <u>www.health.gov/paguidelines</u>	Recovery Day	28 (18) Read Chapter 17 Complete Review Questions	29 (17) Read Chapter 18 Complete Review Questions	30 (16) Practice RT Exercises
Recovery Day	32 (14) Read Chapter 19 Complete Review Questions	33 (13) Practice Static Stretches and SMR with Foam Roller	Review Section V: Chapters 16-19	35 (11) Read Chapter 24 Complete Review Questions	36 (10) Chapter 25 Complete Review Questions	37 (9) Review Section VII: Chapters 24-25
Recovery Day	39 (7) Read Chapter 26 Complete Review Questions	40 (6) Read Chapter 27 Complete Review Questions	Review Section VIII: Chapters 26-27	42 (4) Practice Exam (optional) Review as needed	Review as needed 43 (3)	PT Workshop (Day 1) 44 (2)
45 (1) PT Workshop (Day 2) - Exam						



Additional Recommended Readings:

American Council on Exercise (2021). Taking Action with ACE: Practicing Equity, Diversity and Inclusion as an Exercise Professional. Online course.
Clifford, D. & Curtis, L. (2016). <i>Motivational Interviewing in Nutrition and Fitness</i> . New York, NY: The Guilford Press.
Fleck, S.J. & Kraemer, W.J. (2014). <i>Designing Resistance Training Programs</i> , 4 th edition. Champaign, IL: Human Kinetics.
Liguori, G. (SrEd) (2022). <i>ACSM's Guidelines for Exercise Testing and Prescription</i> , 11 th edition. Philadelphia PA: Wolters Kluwer.
Lox, C.L, Martin-Ginis, K.A., Gainforth, H.L., & Petruzzello, S.J. (2020). <i>The Psychology of Exercise: Integrating Theory and Practice</i> , 5 th edition. New York, NY: Taylor and Francis Group.
McArdle, W.D., Katch, F.I., & Katch, V.L. (2015). <i>Exercise Physiology: Nutrition, Energy, and Human Performance</i> , 8 th edition. Philadelphia, PA: Wolters Kluwer.
Miller, W.R. & Rollnick, S. (2013). <i>Motivational Interviewing: Helping People Change</i> , 3 rd edition. New Yorl NY: The Guilford Press.
Riebe, D., Franklin, B.A., Thompson, P.D., Garber, C.E., Whitfield, G.P., Magal, M., & Pescatello, L.S. (2015) Updating ACSM's Recommendations for Exercise Preparticipation Health Screening. <i>Medicine & Science in Sports & Exercise</i> , 47(11), 2473-2479. Available at: doi: 10.1249/MSS.0000000000000664
Sanders, M.E. (SrEd) (2019). ACSM's Health/Fitness Facility Standards and Guidelines, 5 th edition. Champaign, IL: Human Kinetics.
U.S. Department of Health and Human Services and U.S. Department of Agriculture. 2020-2025 Dietary Guidelines for Americans. 9 th Edition. December 2020. Available at: https://www.dietaryguidelines.gov/ .
U.S. Department of Health and Human Services. (2018). <i>Physical Activity Guidelines for Americans, 2nd edition</i> . Washington, DC: U.S. Department of Health and Human Services. Available at: https://health.gov/paguidelines/second-edition/

Note: Internet addresses cited in this document were current as of February 1, 2023.



Personal Trainer Job Task Analysis/Exam Content Outline:

A job task analysis (i.e., practice analysis, role delineation) is conducted every five to seven years to ensure the certification examination continues to represent the current role of a group exercise instructor as well as updated industry guidelines, best practices, and evolving knowledge of exercise science research.

As such, NETA conducted an updated job task analysis study in 2022, which resulted in a new exam content outline for NETA's NCCA-accredited Personal Trainer Certification Exam. The exam content outline lists the areas of responsibility (formerly known as domains), tasks, and knowledge statements representing the knowledge and skills necessary for a NETA-Certified Personal Trainer. The exam content outline serves as the foundation from which the NETA Personal Trainer Certification Exam is developed.

The exam content outline provided on pages 6-13 is the basis for NETA's Personal Trainer Certification Exam administered on or after June 1, 2023. Candidates preparing for NETA's Personal Trainer Certification Exam should be familiar with and understand all subject matter identified on the exam content outline.

Target Audience Statement

Personal trainers are fitness professionals who promote wellness through healthy lifestyle behaviors. They accomplish this by developing and implementing safe, effective exercise programs. These programs are designed to meet the individual goals of clients they serve within NETA's Code of Ethics.

Personal Trainer Exam Content Outline

(Effective 6/1/2023)

Personal Trainer Certification Exam Specifications				
Area of Responsibility	Number of Items*			
I. Communication and Engagement	20			
II. Client Intake and Assessments	17			
III. Program Design	23			
IV. Program Implementation and Modification	25			
V. Ethics and Professional Responsibility	15			
Total Scored Exam Items	100			

^{*} Does not include the 20 'pre-test' (i.e., unscored) items on the exam.

I. Communication and Engagement

A. Facilitate a welcoming, trusting, and inclusive environment.

- 1. Effective verbal and non-verbal communication strategies, including active listening
- 2. Interpretation of body language
- 3. Strategies for creating and maintaining a professional impression (e.g., being on time, appropriately dressed, well groomed, organized)
- 4. Strategies for creating a fun and welcoming environment
- 5. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 6. Principles of diversity, equity, and inclusion



B. Develop rapport and a professional relationship with the client.

Knowledge of:

- 1. Effective verbal and non-verbal communication strategies, including active listening
- 2. Interpretation of body language
- 3. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 4. Strategies for accommodating various learning styles (e.g., visual, auditory, kinesthetic)
- 5. Strategies for creating and maintaining a professional impression (e.g., being on time, appropriately dressed, well groomed, organized)
- 6. NETA Code of Ethics
- 7. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 8. Principles of diversity, equity, and inclusion

C. Employ effective communication and coaching skills throughout the client relationship.

Knowledge of:

- 1. Effective verbal and non-verbal communication strategies, including active listening
- 2. Interpretation of body language
- 3. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 4. Aspects of motivation and techniques to enhance motivation (e.g., intrinsic, extrinsic) and promote adherence to healthy lifestyle behaviors
- 5. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 6. Considerations for engaging clients in a virtual environment

D. Encourage the client's engagement to facilitate adherence and enjoyment.

Knowledge of:

- 1. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 2. Effective verbal and non-verbal communication strategies, including active listening
- 3. Aspects of motivation and techniques to enhance motivation (e.g., intrinsic, extrinsic) and promote adherence to healthy lifestyle behaviors
- 4. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 5. Strategies for creating a fun and welcoming environment
- 6. Considerations for engaging clients in a virtual environment
- 7. Strategies for accommodating various learning styles (e.g., visual, auditory, kinesthetic)
- 8. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 9. Types of goals (e.g., action oriented, long-term) and collaborative goal-setting strategies (e.g., SMART, SWOT)

II. Client Intake and Assessments

A. Establish the client's desired outcomes and expectations.

- 1. Strategies for determining and accommodating participants' knowledge, skills, abilities, and interests
- 2. Effective verbal and non-verbal communication strategies, including active listening
- 3. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 4. Strategies for accommodating various learning styles (e.g., visual, auditory, kinesthetic)
- 5. Types of goals (e.g., action oriented, long-term) and collaborative goal-setting strategies (e.g., SMART, SWOT)



- 6. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 7. Principles of diversity, equity, and inclusion

B. Obtain the client's health, lifestyle, and physical activity history using interviews and questionnaires. Knowledge of:

- 1. Preparticipation screening tools and components of a health and lifestyle questionnaire
- 2. ACSM preparticipation screening recommendations
- 3. Risk factors for prevalent chronic disease (e.g., diabetes, cardiovascular disease, osteoarthritis, metabolic syndrome)
- 4. Effective verbal and non-verbal communication strategies, including active listening
- 5. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 6. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 7. Time management strategies

C. Conduct an appropriate health screening and fitness assessment to gather objective data about the client's current health, risk factors, and baselines for measuring future progress.

Knowledge of:

- 1. Considerations in the selection and use of health screening and fitness assessment protocols (e.g., safety, contraindications, effect of common medications on response to exercise)
- 2. Static and dynamic postural assessment
- 3. Effective verbal and non-verbal communication strategies, including active listening
- 4. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 5. Exercise-related anatomy, kinesiology, biomechanics, and physiology
- 6. Components and administration of Informed Consent
- 7. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 8. Time management strategies
- 9. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 10. Recognition of and appropriate response to exercise-related medical conditions and emergencies (e.g., myocardial infarction, stroke, heat-related illness)
- 11. Signs and symptoms of and immediate care (e.g., PRICE) for acute injuries (e.g., sprain, strain, fractures)
- 12. Written emergency response procedures (e.g., activation of emergency medical services (i.e., 911), facility emergency response plan, pre-emergency preparation strategies
- 13. Elements of health, wellness, lifestyle, exercise, and physical activity history and current states
- 14. Components of health- and skill-related physical fitness

D. Analyze the client's subjective and objective information to determine the need for medical clearance and support program design.

- 1. Considerations and procedures for referring clients to healthcare providers
- 2. ACSM preparticipation screening recommendations
- 3. Interpretive guidelines for preparticipation screening tools and health and lifestyle questionnaires
- 4. Health and injury risk factors and contraindications
- 5. Exercise-related anatomy, kinesiology, biomechanics, and physiology
- 6. Acute and chronic responses to exercise in asymptomatic and symptomatic populations



- 7. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 8. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)

III. Program Design

A. Interpret the assessment results using professional guidelines and normative data.

Knowledge of:

- 1. Interpretive guidelines for health screening and fitness assessment results
- 2. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 3. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 4. Credible sources of information, education providers, and professional organizations

B. Develop short- and long-term goals with the client that relate to desired outcomes.

Knowledge of:

- 1. Types of goals (e.g., action oriented, long-term) and collaborative goal-setting strategies (e.g., SMART, SWOT)
- 2. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 3. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 4. Principles of diversity, equity, and inclusion
- 5. Strategies for promoting holistic lifestyle choices
- 6. Basic principles of nutrition, *Dietary Guidelines for Americans*, recommended healthy eating patterns, and food guidance graphics
- 7. Principles and guidelines (e.g., ACSM, Academy of Nutrition and Dietetics, National Weight Control Registry) of safe and effective weight management
- 8. Physical activity recommendations (e.g., *Physical Activity Guidelines for Americans*; ACSM, AHA, and CDC Consensus Statements) for improving overall health
- 9. Principles of motivation and exercise adherence
- 10. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 11. Elements of health, wellness, lifestyle, exercise, and physical activity history and current states
- 12. Components of health- and skill-related physical fitness

C. Select the appropriate exercises and physical activities necessary to achieve client goals, taking into consideration their health status, preference for training (e.g., virtual, in-person, group), and access to exercise equipment.

- 1. Demographic-specific considerations (e.g., age, gender, culture, fitness level)
- 2. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 3. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)



- 4. Exercise-related anatomy, kinesiology, biomechanics, and physiology
- 5. Principles of exercise training (e.g., overload, specificity, progression, variation) and ACSM guidelines for exercise program design (e.g., cardiorespiratory, muscular fitness, flexibility training, balance)
- 6. Appropriate selection and use of exercise equipment
- 7. Safe and effective exercise technique (e.g., joint alignment, range of motion, breathing pattern)
- 8. Strategies for recovery and restoration (e.g., stretch, self-myofascial release, rest, sleep)
- 9. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 10. Aspects of motivation and techniques to enhance motivation (e.g., intrinsic, extrinsic) and promote adherence to healthy lifestyle behaviors
- 11. Corrective exercises for muscle imbalances
- 12. Elements of health, wellness, lifestyle, exercise, and physical activity history and current states
- 13. Components of health- and skill-related physical fitness

D. Determine acute training variables (e.g., frequency, intensity, volume, duration, recovery). Knowledge of:

- 1. Principles of exercise training (e.g., overload, specificity, progression, variation) and ACSM guidelines for exercise program design (e.g., cardiorespiratory, muscular fitness, flexibility training, balance)
- 2. Training systems and strategies (e.g., periodization, high intensity interval training (HIIT), circuit training)
- 3. Methods for measuring and monitoring exercise intensity (e.g., target heart rate, rating of perceived exertion, METs)
- 4. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 5. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 6. Environmental considerations (e.g., cold, hot, high altitude) for exercise program design
- 7. Physical activity recommendations (e.g., *Physical Activity Guidelines for Americans*; ACSM, AHA, and CDC Consensus Statements) for improving overall health
- 8. Principles and guidelines (e.g., ACSM, Academy of Nutrition and Dietetics, National Weight Control Registry) of safe and effective weight management

E. Evaluate the program with the client to obtain feedback, determine feasibility, and ensure understanding of benefits and risks.

- 1. Effective verbal and non-verbal communication strategies, including active listening
- 2. Interpretation of body language
- 3. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 4. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 5. Types of goals (e.g., action oriented, long-term) and collaborative goal-setting strategies (e.g., SMART, SWOT)
- 6. Principles and guidelines (e.g., ACSM, Academy of Nutrition and Dietetics, National Weight Control Registry) of safe and effective weight management
- 7. Relationship-building strategies to engage, establish rapport, and demonstrate empathy in a non-judgmental manner
- 8. Acute and chronic responses to exercise in asymptomatic and symptomatic populations
- 9. Appropriate progressions, regressions, and modifications



- 10. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 11. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)

IV. Program Implementation and Modification

A. Instruct the client on proper exercise execution and technique.

Knowledge of:

- 1. Exercise-related anatomy, kinesiology, biomechanics, and physiology
- 2. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 3. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 4. Effective verbal and non-verbal communication strategies, including appropriate cueing and feedback
- 5. Appropriate spotting techniques and safety precautions during resistance training exercise
- 6. Appropriate progressions, regressions, and modifications
- 7. Safe and effective exercise technique (e.g., joint alignment, range of motion, breathing pattern)
- 8. Strategies for accommodating various learning styles (e.g., visual, auditory, kinesthetic)
- 9. Strategies for improving form and technique in a non-judgmental manner
- 10. Credible sources of information, education providers, and professional organizations

B. Conduct ongoing evaluations of the client's performance and response to the program using observation, feedback, and reassessments.

Knowledge of:

- 1. Considerations in the selection and use of health screening and fitness assessment protocols (e.g., safety, contraindications, effect of common medications on response to exercise)
- 2. Elements of and guidelines for writing progress notes (i.e., SOAP notes)
- 3. Elements of and guidelines for maintaining client records
- 4. Methods for measuring and monitoring exercise intensity (e.g., target heart rate, rating of perceived exertion, METs)
- 5. Acute and chronic responses to exercise in asymptomatic and symptomatic populations
- 6. Interpretive guidelines for health screening and fitness assessment results
- 7. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 8. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 9. Theoretical models of behavior change (e.g., transtheoretical model, self-efficacy theory)
- 10. Interpretation of verbal and nonverbal client responses
- 11. Principles of motivation and exercise adherence

C. Educate the client about factors related to the program (e.g., nutrition, recovery strategies, healthy living strategies).

Knowledge of:

1. Basic principles of nutrition, *Dietary Guidelines for Americans*, recommended healthy eating patterns, and food guidance graphics



- 2. Principles and guidelines (e.g., ACSM, Academy of Nutrition and Dietetics, National Weight Control Registry) of safe and effective weight management
- 3. Physical activity recommendations (e.g., *Physical Activity Guidelines for Americans*; ACSM, AHA, and CDC Consensus Statements) for improving overall health
- 4. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)
- 5. Credible sources of information, education providers, and professional organizations
- 6. Interpretation of body language
- 7. Elements of health, wellness, lifestyle, exercise, and physical activity history and current states
- 8. Components of health- and skill-related physical fitness
- 9. Strategies for recovery and restoration (e.g., stretch, self-myofascial release, rest, sleep)
- 10. Strategies for promoting body awareness (e.g., mirror, biofeedback) and mindfulness (e.g., meditation, breathing techniques)
- 11. Signs and symptoms of overtraining and overuse (repetitive strain injury) syndromes

D. Modify the program as needed to enhance effectiveness, efficiency, and safety.

Knowledge:

- 1. Exercise-related anatomy, kinesiology, biomechanics, and physiology
- 2. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 3. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)
- 4. Principles of exercise training (e.g., overload, specificity, progression, variation) and ACSM guidelines for exercise program design (e.g., cardiorespiratory, muscular fitness, flexibility training, balance)
- 5. Methods for measuring and monitoring exercise intensity (e.g., target heart rate, rating of perceived exertion, METs)
- 6. Effective verbal and non-verbal communication strategies, including appropriate cueing and feedback
- 7. Coaching methods (e.g., motivational interviewing, appreciative inquiry)
- 8. Appropriate spotting techniques and safety precautions during resistance training exercise
- 9. Appropriate progressions, regressions, and modifications
- 10. Safe and effective exercise technique (e.g., joint alignment, range of motion, breathing pattern)
- 11. Strategies for improving form and technique in a non-judgmental manner
- 12. Strategies for accommodating various learning styles (e.g., visual, auditory, kinesthetic)
- 13. Credible sources of information, education providers, and professional organizations
- 14. Corrective exercises for muscle imbalances
- 15. Environmental considerations (e.g., cold, hot, high altitude) for exercise program design

V. Ethics and Professional Responsibility

A. Adhere to industry and facility guidelines, legal requirements, and professional ethics to protect the interest of clients and other interested parties.

- 1. Activity- and exercise-specific benefits, indications, contraindications, risks, and precautions for the general population
- 2. Exercise guidelines, contraindications, and considerations for special populations (e.g., pregnancy, older adults, youth/adolescents) and medical conditions (e.g., arthritis, hypertension, diabetes, asthma, osteoporosis, orthopedic and other injuries)



- 3. Principles of exercise training (e.g., overload, specificity, progression, variation) and ACSM guidelines for exercise program design (e.g., cardiorespiratory, muscular fitness, flexibility training, balance)
- 4. ACSM Health/Fitness Facility Standards and Guidelines
- 5. Requirements for the renewal of professional and safety (e.g., CPR) certification(s)
- 6. NETA Code of Ethics
- 7. Rules, regulations, and guidelines regarding privacy of personal health information (i.e., HIPAA) and personally identifiable information (PII)
- 8. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)
- 9. Considerations related to media selection and licensing
- 10. Credible sources of information, education providers, and professional organizations

B. Respond to emergencies, incidents, and injuries.

Knowledge of:

- 1. Recognition of and appropriate response to exercise-related medical conditions and emergencies (e.g., myocardial infarction, stroke, heat-related illness)
- 2. Requirements for the renewal of professional and safety (e.g., CPR) certification(s)
- 3. Written emergency response procedures (e.g., activation of emergency medical services (i.e., 911), facility emergency response plan, pre-emergency preparation strategies
- 4. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)
- 5. Signs and symptoms of and immediate care (e.g., PRICE) for acute injuries (e.g., sprain, strain, fractures)

C. Maintain required professional and safety certifications through appropriate continuing education. Knowledge of:

- 1. Requirements for the renewal of professional and safety (e.g., CPR) certification(s)
- 2. Credible sources of information, education providers, and professional organizations
- 3. NETA Code of Ethics

D. Abide by scope of practice and other limitations based on education, credentials, training, skill, and experience.

Knowledge of:

- 1. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)
- 2. NETA Code of Ethics
- 3. Credible sources of information, education providers, and professional organizations

E. Maintain accurate, secure, and comprehensive client records.

- 1. Rules, regulations, and guidelines regarding privacy of personal health information (i.e., HIPAA) and personally identifiable information (PII)
- 2. Legal considerations, risk management, and scope of practice (e.g., nutrition, medicine, rehabilitation, therapy)
- 3. Elements of and guidelines for maintaining client records
- 4. Elements of and guidelines for writing progress notes (i.e., SOAP notes)
- 5. ACSM Health/Fitness Facility Standards and Guidelines



Definition of Terms

The following list defines and/or describes key terms, concepts, and acronyms that appear in NETA's Personal Trainer Practice Analysis. Candidates should refer to this list of terms to gain greater understanding of the Practice Analysis and subject matter that may appear on the Personal Trainer Certification Exam.

ACSM – American College of Sports Medicine. Establishes industry standards and guidelines (e.g., ACSM's Guidelines to Exercise Testing and Prescription, ACSM's Health/Fitness Facility Standards and Guidelines), as well as position stands and consensus statements.

Active listening techniques: A set of verbal techniques representing a mode of listening in which the listener is engaged in the conversation to gain greater understanding of the content, motivation, and feelings associated with the message being communicated. Active listening techniques include asking open-ended questions and the use of minimal encouragers, summarizing statements, and reflections of content, feeling, and meaning.

Acute training variables: Refers to the fundamental components that may be manipulated for an exercise or within an exercise program to elicit a desired adaptation. These variables may include: intensity (i.e., workload), repetitions, sets, rest periods, tempo (i.e., speed of movement), and volume.

Coaching methods: Refers to a collaborative conversation through which one empowers an individual to discover their own solutions, encouraging and supporting them toward the adoption and maintenance of health lifestyles, using techniques such as motivational interviewing and appreciative inquiry.

DASH Eating Plan: *D*ietary Approaches to Stop Hypertension is a flexible and balanced eating plan that is based on research studies sponsored by the National Heart, Lung, and Blood Institute (NHLBI). https://www.nhlbi.nih.gov/health/health-topics/topics/dash

Dietary Guidelines for Americans: Evidence-based food and beverage recommendations for Americans ages 2 years and older, published every five years by the U.S. Department of Health and Human Services (HHS) and the U.S. Department of Agriculture (USDA). https://health.gov/dietaryguidelines/

Exercise-related injuries: Includes both acute and chronic conditions such a sprains, strains, fractures, tendonitis, and wounds (e.g., lacerations, abrasions).

Exercise technique: The manner in which an exercise is performed. Includes considerations such as posture, joint alignment, range of motion, base of support, tempo, and breathing.

Fitness assessments: refers to various methods and protocols to quantify and/or qualify health-related components of physical fitness (e.g., cardiorespiratory endurance, body composition, flexibility, muscular strength and endurance).

Health screening: Refers to non-diagnostic assessments and measurements (e.g., resting heart rate, resting blood pressure, body mass index, waist-to-hip ratio) used to identify indicators of increased risk for disease that may require additional evaluation and treatment by a health care provider.

HIPAA: Health Insurance Portability and Accountability Act of 1996 http://www.hhs.gov/ocr/privacy/hipaa/understanding/index.html

Interpretive guidelines: Refers to classification criteria and normative charts used to interpret information and data obtained from health screening and fitness assessments.

Learning styles: Refers to the various methods through which people take-in, process, and retain information including visual, auditory, read/write, and kinesthetic learners (i.e., VARK). May also refer to learning styles identified as converging, diverging, assimilating, and accommodating (Kolb & Fry).



Legal considerations: Refers to concepts such as liability, negligence, standard of care, liability exposures, scope of practice, and professional liability insurance.

Medical conditions: Refers to common diseases and chronic conditions often encountered with personal training clients including asthma, arthritis, diabetes, hypertension, cardiovascular disease, and osteoporosis.

NWCR: National Weight Control Registry. http://www.nwcr.ws/

PAR-Q: The *P*hysical *A*ctivity *R*eadiness *Q*uestionnaire is a 1-page form to see if you should check with your doctor before becoming much more physically active. http://www.csep.ca/view.asp?ccid=517

Personally identifiable information (PII): Any representation of information (e.g., name, address, social security number or other identifying number or code, telephone number, email address, etc.) that permits the identity of an individual to whom the information applies to be reasonably inferred by either direct or indirect means.

Physical activity: Any movement of the body that increases energy expenditure above resting levels. Includes domestic physical activity, transportation physical activity, occupational physical activity and leisure time physical activity. In the context of personal training, the focus is most often on leisure-time physical activities including structured exercise, recreation, and sports.

Physical Activity Guidelines for Americans: The U.S. Department of Health and Human Services (HHS) issues the *Physical Activity Guidelines for Americans*. The 2018 *Physical Activity Guidelines for Americans*, 2nd edition provides science-based guidance to help Americans aged 6 and older improve their health through appropriate physical activity. http://health.gov/paguidelines/

Prevalent chronic diseases: Includes cardiometabolic diseases including cardiovascular disease (e.g., heart disease, stroke) and type 2 diabetes.

P.R.I.C.E.: An acronym representing *p*rotection, *r*est, *i*ce, *c*ompression, and *e*levation, used in reference to immediate care of exercise-related injuries.

Principles of exercise training: Refers to the principles of overload, specificity (i.e., SAID-specific adaptations to imposed demands), progression, reversibility, and variation.

Risk management: A proactive approach to minimize liability exposures that may affect exercise professionals and their employers.

SOAP notes: An acronym representing subjective, objective, assessment, and plan, used as an organized method of documenting client response to and progress with exercise sessions and programs.

Special Populations: Refers to sub-groups including women who are pregnant, older adults, and youth and adolescents.

Theoretical models of behavioral change: Any number of theories or models used to describe behavioral change, the most common of which is the Transtheoretical Model (Prochaska & DiClemente). Others include the Self-Efficacy Theory (Bandura), the Self-Determination Theory (Deci & Ryan), and the Health Belief Model (Hochbaum et al.)

USDA Food Guidance System: Provides practical information to individuals, health professionals, nutrition educators, and the food industry to help consumers build healthier diets with resources (e.g., MyPlate) and tools for dietary assessment, nutrition education, and other user-friendly nutrition information. http://www.choosemyplate.gov/about