# Executive Summary of Job Task Analysis June 2015

# Excerpted from: Report of the Practice Analysis for the Certified Personal Trainer

# Appendix 1 Updated CPT Content Outline

### **Domain 1: Basic and Applied Sciences and Nutritional Concepts**

### **Knowledge of:**

- k1. Concepts and structures of anatomy including nervous system, muscular system, skeletal system, cardiorespiratory system and endocrine system
- k2. Functions of exercise physiology related to:
  - a. nervous system
  - b. muscular system
  - c. skeletal system
  - d. endocrine system
  - e. cardiorespiratory system
  - f. digestive system
  - g. bioenergetics and exercise metabolism
- k3. Functional biomechanics (such as levers, force, torque)
- k4. Principles of human movement science (such as muscle action spectrum, force-couple relationships, length-tension relationships)
- k5. Principles of motor development (motor learning, motor control, motor behavior)
- k6. Macronutrients (carbohydrates, protein, fat)
- k7. Micronutrients (vitamins and minerals)
- k8. Hydration concepts
- k9. Recommendations and guidelines for caloric intake and expenditure
- k10. Units of energy measurement (Kcals/Calories)
- k11. Dietary reference intakes
- k12. Portion sizes, meal timing and frequency
- k13. Crash/fad/myth diets
- k14. Common nutritional supplements including possible risks, benefits, uses and effects
- k15. Food and supplement label reading
- k16. Factors that may influence weight management physiology (such as law of thermodynamics, poor sleep, endocrine abnormalities, medication)

#### **Domain 2: Assessment**

#### <u>Tasks</u>

1. Select, perform, document and interpret results of subjective assessments using tools and techniques such as questionnaires and interviews to assess client's medical history, needs and readiness for fitness program.

- 2. Select, perform, document, and interpret results of:
  - a. static postural assessments (such as assessment of upper and lower extremities and lumbopelvic-hip complex).
  - b. movement assessments (such as squat, gait, push/pull, single leg squat) in order to evaluate proper versus improper movement patterns.
  - c. strength, muscular endurance, and power assessments (such as, 1-repetition maximum strength tests, push-up test, vertical jump test).
  - d. speed, agility, and quickness assessments (such as 40 yard dash, Pro shuttle, L.E.F.T. test).
  - e. cardiorespiratory assessments (such as 3-minute Step Test, Rockport Walk Test, VO<sub>2MAX</sub> Test).
  - f. physiological assessments (such as resting heart rate, and blood pressure).
- 3. Select, perform, document, and interpret results of body composition assessments (such as Body Mass Index, skinfold, circumference measurements).

- k17. Physical Activity Readiness Questionnaire (PAR-Q) assessment
- k18. Essential elements of personal, occupational, and family medical history
- k19. Medical risk factors (such as previous injuries or surgeries, chronic pain, diseases, medications)
- k20. Elements of a lifestyle questionnaire (such as sleep, stress level, smoking, alcohol)
- k21. Cardiorespiratory assessments (such as 3-minute Step Test, Rockport Walk Test, VO<sub>2MAX</sub>).
- k22. Physiological assessments relevant to CPTs (such as resting heart rate, blood pressure)
- k23. Kinetic chain checkpoints during static posture assessment (ankles, knees, lumbo-pelvic-hip complex, shoulders, head)
- k24. Applicability of assessments from other health professionals (such as blood pressure, cholesterol, glucose)
- k25. Body composition assessments (such as skin fold calibers, circumference, bioelectrical impedance)
- k26. Performance assessments (such as 1-repetition maximum, vertical jump, long (broad) jump)
- k27. Types of movement assessments (such as Overhead Squat, Single-leg Squat, gait)
- k28. Body composition calculations (such as fat mass, lean mass, waist-to-hip ratio)
- k29. Considerations and modifications for performing assessments with special populations (such as seniors, youth, prenatal)
- k30. Standards for assessments and outcome expectations for special populations (such as youth, seniors, obese)
- k31. Indicators that client's condition is out of scope and requires referral
- k32. Criteria for reassessment (such as time lapsed, change in goals, lifestyle change)

## **Domain 3: Program Design**

#### **Tasks**

- 1. Design client-specific program based on assessment results including:
  - a. Flexibility training
  - b. Resistance training
  - c. Cardiorespiratory training
  - d. Core training
  - e. Balance training
  - f. Plyometrics (reactive) training

- g. Speed Agility Quickness (SAQ) training
- 2. Design and apply program modifications as needed based on variables such as modalities, space, time, client abilities and current condition.

- k33. Flexibility training methods (such as self-myofascial release (SMR), static, active-isolated, and dynamic stretching)
- k34. Resistance training systems (such as single set, multiple set, super set, pyramid set, circuit training, vertical loading, horizontal loading)
- k35. Resistance training methods (such as stabilization, strength, power) and modalities (such as machines, body weight, free weights)
- k36. Cardiorespiratory training methods (such as zone/stage training, interval training, steady state)
- k37. Core training methods for core-stabilization (such as plank, bird dog, bridge), core-strength (such as, reverse crunches, ball crunches, cable rotations) and core-power (such as soccer throw, rotation chest pass, medicine ball pullover throw)
- k38. Balance training methods for stabilization (such as single-leg balance, single-leg balance and reach, single-leg windmill) strength (such as single-leg squat, single-leg deadlift, lunge to balance) and power (such as single-leg box hop-up, single-leg box hop-down, multiplanar single-leg hop)
- k39. Proprioceptive manipulation (such as closing eyes, nodding head, single-leg stand)
- k40. Plyometric (reactive) training methods for stabilization(such as squat jump with stabilization, box jump-up to stabilization, multiplanar jumps with stabilization) strength (such as butt kicks, tuck jumps, squat jump) and power (such as Box run steps, ice skaters, proprioceptive plyometrics)
- k41. Speed Agility Quickness (SAQ) training methods (such as resisted sprints, cone drills, agility ladder drills)
- k42. Exercise progression/regression
- k43. General adaptation syndrome
- k44. Principle of specificity
- k45. Principle of overload
- k46. Principle of variation
- k47. Periodization concepts (linear, undulating)
- k48. Acute variables (such as sets, repetitions, exercise selection, progressions, FITTE principle)
- k49. Risk vs. reward of different modalities and exercises
- k50. Overtraining, rest, and recovery
- k51. Current trends (identification of) and their applicability to individual training programs
- k52. Types of fitness technology (such as heart rate monitors, performance trackers, calorie counters) and their uses and benefits
- k53. Considerations for exercise program design for special populations (such as seniors, youth, prenatal)

#### **Domain 4: Exercise Technique and Training Instruction**

#### Tasks

- 1. Provide instruction and demonstrate proper exercise technique for clients
- 2. Observe, analyze, and provide feedback on client's exercise technique to ensure safe and effective movement

- 3. Identify need for and implement appropriate exercise modifications to ensure safety and effectiveness of program
- 4. Determine need for, select, and administer proper spotting techniques

- k54. Proper set-up and technique of:
  - a. Flexibility training methods (such as self-myofascial release (SMR), static, active-isolated, and dynamic stretching)
  - b. Core exercises
  - c. Balance exercises
  - d. Plyometric (reactive) exercises
  - e. Speed, agility and quickness (SAQ) exercises
  - f. Resistance training exercises
  - g. Warm-up protocol
  - h. Cool-down protocol
- k55. Kinesthetic, auditory, and visual cueing techniques
- k56. Safe training practices (such as maintaining a safe environment, monitoring exercise intensity, proper equipment setup)
- k57. Application and modalities of exercise regressions and progressions
- k58. Safe, effective, and professional spotting techniques
- k59. Proper breathing techniques during exercise
- k60. Kinetic chain checkpoints (ankles, knees, lumbo-pelvic-hip complex, shoulders, head)
- k61. Physical and medical signs, symptoms, or contraindications that require training modifications

#### **Domain 5: Client Relations and Behavioral Coaching**

#### Tasks

- 1. Establish and maintain professional client-certified personal trainer (CPT) relationships using rapport building and communication techniques.
- 2. Assess, and re-assess, short- and long-term goals, based on client's initial goals, discussion of reasonable expectations, and relevant outcomes of assessments in order to develop goals.
- 3. Facilitate lifestyle and behavioral change through education, monitoring, and communication strategies.

#### **Knowledge of:**

- k62. Communication components (such as verbal and non-verbal communication, active listening, rapport building)
- k63. SMART goal development
- k64. Goal expectation management (client's desires vs. needs based on assessment)
- k65. Behavior change strategies (such as food journal, activity tracking, stress and time management)
- k66. Psychological responses to exercise
- k67. Barriers to behavior change
- k68. Client expectation management

## **Domain 6: Professional Development & Responsibility**

#### **Tasks**

1. Adhere to applicable professional standards, guidelines, regulations, and codes of conduct

- 2. Develop and grow business (such as building client base, marketing, networking, financial planning)
- 3. Act within CPT scope of practice, respecting occupational limitations
- 4. Follow proper procedures in an emergency situations and report equipment malfunction, hazards, damages, and dangers)

- k69. Professional and ethical guidelines and standards and codes of conduct (such as record keeping, client medical clearance, physical appearance and attire, punctuality)
- k70. Business fundamentals (such as forecasting techniques, projections)
- k71. Marketing concepts and techniques
- k72. Sales concepts and techniques (such as lead generation, presenting, pre-handling and overcoming objections)
- k73. Equipment maintenance and safety considerations
- k74. Professional limitations of personal trainer (such as psychological counseling, meal planning, diagnosing injury)
- k75. Requirements for maintaining professional credentials
- k76. Resources regarding rules and regulations applicable to CPTs
- k77. Credible resources of information regarding health and fitness education (such as scholarly articles, peer-reviews, conferences, workshops)
- k78. Opportunities for professional growth through education and/or other professional experiences