



BOARD OF CERTIFICATION
FOR THE ATHLETIC TRAINER
Be Certain.™



Crosswalk Analysis:

Role Delineation Study/Practice Analysis, Sixth Edition
vs.
Athletic Training Education Competencies, Fifth Edition

The crosswalk analysis serves to illustrate that the content for the BOC Exam is incorporated into accredited athletic training programs.

- The *Role Delineation Study/Practice Analysis, Sixth Edition* (RD/PA) serves as the validated basis of knowledge and skills for an entry-level Athletic Trainer (AT) and is the blueprint for the exam.
- The *Athletic Training Education Competencies, Fifth Edition* (*Competencies*) define the educational content that is expected of students within an accredited athletic training program.
- Although these are two distinct documents, both hold a major role in the preparation and evaluation of entry-level ATs.

The RD/PA task, knowledge and skill statements are listed below with the corresponding athletic training education competency numbers. Please visit the CAATE website, www.caate.net, to obtain a copy of the *Competencies*.

- For tasks to become entry-level, they must first be incorporated into athletic training programs – which stimulate the concepts to permeate into entry-level practice.
- It is not uncommon for there to be athletic training education competencies not included in the RD/PA. This illustrates that those competencies have not permeated entry-level practice as of yet.

BOC Domains

- I. Injury/Illness Prevention and Wellness Protection
- II. Clinical Evaluation and Diagnosis
- III. Immediate and Emergency Care
- IV. Treatment and Rehabilitation
- V. Organizational and Professional Health and Well-being

Education Competencies

EBP = Evidence Based Practice

PHP = Prevention and Health Promotion

CE = Clinical Examination and Diagnosis

AC = Acute Care of Injuries and Illnesses

TI = Therapeutic Interventions

PS = Psychosocial Strategies and Referral

HA = Healthcare Administration

PD = Professional Development and Responsibility

CIP = Clinical Integration Proficiencies

BOC Role Delineation Study/Practice Analysis, Sixth Edition Domain/Task/Knowledge/Skill Statements	Education Competencies
DOMAIN I: Injury/illness prevention and wellness protection	---
A. Minimize risk of injury and illness of individuals and groups impacted by or involved in a specific activity through awareness, education and intervention.	PHP,CE,AC, PS,HA,CIP
Knowledge of:	---
1. Roles of appropriate individuals (e.g., administrators, management, parents/guardians/family members, coaches, participants and members of the health care team) in risk and illness prevention	PHP 18 AC 2 HA 24
2. Behavioral risks (e.g., nutritional, sexual, substance abuse, blood-borne pathogens, sedentary lifestyle and overtraining)	PHP 5,24,25
3. Catastrophic risks (e.g., cardiorespiratory, neurological, thermoregulatory, endocrinological and immunological)	PHP 10,11
4. Common risks (e.g., musculoskeletal, integumentary, neurological, respiratory and medical)	PHP 6 CE 3
5. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PHP 18
6. Environmental risks (e.g., heat, cold, altitude, sunburn, insects, visibility/lighting and lightning)	PHP 10,11
7. Mechanisms of common and catastrophic injury	PHP 3
8. Preventive measures (e.g., safety rules, accepted biomechanical techniques, ergonomics and nutritional guidelines)	PHP 4
Skill in:	---
9. Communicating effectively	CIP 9
10. Identifying appropriate resources	CIP 3
11. Identifying risks	PHP 1,5,17 CIP 3

B. Interpret individual and group pre-participation and other relevant screening information (e.g., verbal, observed, written) in accordance with accepted and applicable guidelines to minimize the risk of injury and illness.	PHP,AC,HA,PD,CIP
Knowledge of:	---
1. Established laws, regulations and policies (e.g., institutional, state and national)	PD 3-5 AC 1
2. Established guidelines for recommended participation	PD 5,8,9
3. Pre-participation evaluation process and procedures	HA 23
4. Privacy laws	PD 3
Skill in:	---
5. Applying appropriate pre-participation screening information	HA 23 CIP 1
6. Applying established guidelines and regulations	PD 3-5
7. Collecting appropriate pre-participation screening information	AC 5
8. Identifying appropriate resources	CIP 1,3
9. Identifying health-related conditions that may limit or compromise participation	PHP 5
10. Identifying established guidelines and regulations	PD 4,5 PHP 12
C. Identify and educate individual(s) and groups through appropriate communication methods (e.g., verbal, written) about the appropriate use of personal protective equipment (e.g., clothing, shoes, protective gear and braces) by following accepted procedures and guidelines.	PHP,PD,CIP
Knowledge of:	---
1. Commercially available protective products	PHP 20-22
2. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PHP 18
3. Effective use of prophylactic/protective measures	PHP 2,23
4. Established standards pertaining to protective equipment (e.g., NOCSAE and ASTM)	PHP 20 PD 5
5. Intended purpose, limitations and capabilities of protective equipment	PHP 20,21
6. Legal risks and ramifications of making equipment modifications	PHP 20,21 PD 3-5
7. Legal and safety risks involved in the construction and use of custom and commercial protective devices	PHP 20,21 PD 3-5
8. Manufacturer's guidelines regarding selection, fit, inspection and maintenance of equipment	PHP 20,21,22
9. Materials and methods for fabricating custom-made protective devices	PHP 21

10. Physical properties of the protective equipment materials (e.g., absorption, dissipation and transmission of energy)	PHP 20-22
Skill in:	---
11. Educating individuals on the selection of standard protective equipment	CIP 1,2
12. Fabricating and fitting custom-made devices	PHP 21
13. Fitting standard protective equipment	PHP 22
14. Interpreting rules regarding protective equipment	PHP 20 PD 5
15. Identifying injuries, illnesses and health-related conditions that warrant the application of custom-made or commercially available devices	CIP 1,2
16. Selecting and applying commercial devices	CIP 1,2
D. Maintain physical activity, clinical treatment and rehabilitation areas by complying with regulatory standards to minimize the risk of injury and illness.	PHP, TI, PD
Knowledge of:	---
1. Laws, regulations and policies (e.g., institutional, state and national) regarding safety and sanitation	PHP 7,20 TI 19 PD 3-5
2. Manufacturer's guidelines for maintaining equipment and devices	PHP 22 TI 19
3. Health-related conditions that pose risk	PHP 5
Skill in:	
4. Complying with manufacturer's recommendations for maintenance of equipment	PHP 20
5. Maintaining a safe and sanitary environment in compliance with established standards (e.g., OSHA, universal precautions, local health department and institutional policy)	PHP 22 TI 19,20 PD 4,5,7
6. Recognizing noncompliance with safety and sanitation standards	PHP 7
7. Recognizing malfunction or disrepair of therapeutic modalities, rehabilitation equipment or furnishings in clinical and treatment areas	TI 20
E. Monitor environmental conditions (e.g., weather, surfaces, client work-setting) using appropriate methods and guidelines to facilitate individual and group safety.	PHP, HA, PD, CIP
Knowledge of:	---
1. Health-related conditions of participants that predispose them to environmentally caused illness (e.g., prior heat illness, sickle cell trait, asthma, recent viral infection, use of medication, ergogenic aids, obesity and dehydration)	PHP 29
2. Emergency communication systems	HA 24

3. Environmental conditions that create risk (e.g., heat, humidity, cold, altitude, pollution, weather extremes, insect swarms, infectious pathogens and ergonomic conditions)	PHP 10
4. Ergonomic and epidemiological risk factors as they relate to participation	PHP 19
5. Established standards regarding environmental risks (e.g., governing body rules/regulations, NATA, NCAA, ACSM, etc.)	PHP 12 HA 15,16 PD 3-5
6. Hazards common in activity areas (e.g., surface irregularities, obstructions, inadequate offsets, moisture and other foreign objectives, inadequate lighting, inadequate ingress and egress)	PHP 18
7. Hazards common to equipment (e.g., shoulder pads, goal posts, computer keyboards, desk chairs, hand trucks)	PHP 18,19
8. Methods for reducing risk from environmental conditions (e.g., activity scheduling, clothing selection and fluid replacement)	PHP 10-12
9. Policies and procedures for removing participants from environmental risk situations (e.g., heat index, lightning and activity scheduling)	PHP 11
10. Policy statements and guidelines pertaining to safety hazards (e.g., NATA and NCAA)	PD 4
11. Rules governing play and established standards and practices	PD 4
Skill in:	---
12. Conducting inspections and recognizing hazards	PHP 18
13. Monitoring techniques (e.g., weight charts, fluid intake and body composition)	PHP 14
14. Recognizing environmental and ergonomic risks	PHP 13
15. Recognizing characteristics in participants that would predispose them to environmental and ergonomic risks	PHP 18,19
16. Recommending and implementing appropriate methods for addressing hazards	CIP 3
17. Using available resources to gather/interpret information regarding environmental data	PHP 13
F. Maintain or improve physical conditioning for the individual or group by designing and implementing programs (e.g., strength, flexibility, CV fitness) to minimize the risk of injury and illness.	PHP
Knowledge of:	---
1. Components of a physical conditioning program	PHP 25,29,30
2. Current strength and conditioning techniques	PHP 26,29,31
3. Ergonomics	PHP 19
4. Human physiology	PHP 25
5. Physiological adaptation to exercise (e.g., space and altitude)	PHP 28,30
6. Various conditioning stages and program intervals	PHP 28,30
Skill in:	---
7. Addressing the components of a comprehensive conditioning program (e.g., strength, flexibility, endurance, sport requirements and individual needs)	PHP 27,29,30,44

8. Assessing appropriateness of individual or group participation in conditioning programs	PHP 27,29,30
9. Correcting or modifying inappropriate, unsafe or dangerous activities undertaken in conjunction with physical conditioning programs	PHP 26,28,31
10. Educating appropriate individuals in the effective application of conditioning programs (e.g., guardians, coaches, participants and administration)	PHP 29
11. Instructing in the use of appropriate conditioning equipment (e.g., bikes, weight machines and treadmills)	PHP 29-31
G. Promote healthy lifestyle behaviors using appropriate education and communication strategies to enhance wellness and minimize the risk of injury and illness.	PHP,CE,PS,PD
Knowledge of:	---
1. Accepted guidelines for exercise prescription	PHP 27,29
2. Accepted nutritional practices	PHP 32-35,38,39,45
3. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PHP 33
4. Predisposing factors for nutritional and stress-related disorders	PHP 32,45 PS 13
5. Professional resources for addictions (e.g., tobacco, alcohol and narcotics)	PS 13
6. Professional resources for stress management and behavior modification (e.g., anger management, HIV/STD prevention and operational stress control)	CE 22 PS 11
7. Related nutritional disorders, inactivity-related diseases, overtraining issues and stress-related disorders	PHP 24,32,33,35,45 PS 12,13
Skill in:	---
8. Accessing information concerning accepted guidelines for nutritional practices	PHP 35-37,39,40 PS 13
9. Addressing the issue of special nutritional needs in regard to competition or activity (e.g., pre- and post-game meals and nutritional supplements)	PHP 33,40-42
10. Communicating with appropriate professionals regarding referral and treatment for individuals	PHP 43,47 PS 11,14 PD 10
11. Educating appropriate individuals on nutritional disorders, maladaptation, substance abuse and overtraining	PHP 32 PS 18
12. Recognizing signs and symptoms of nutritional, addiction and stress-related disorders	PHP 43,46 PS 14
DOMAIN II: Clinical Evaluation and Diagnosis	---
A. Obtain an individual's history through observation, interview and/or review of relevant records to assess injury, illness or health-related condition.	CE,PS,CIP
Knowledge of:	---

1. Biomechanical factors associated with specific activities	CE 4,21
2. Communication techniques in order to elicit information	PS 17
3. Injuries, illnesses and health-related conditions associated with specific activities	CE 7,20,21
4. Medical records as a source of information	CE 21
5. Pathomechanics of injury	CE 5,20,21
6. Pathophysiology of illnesses and health-related conditions	CE 5,20,21
7. Relationships between injuries, illnesses and health-related conditions and outside factors (e.g., predisposing, nutritional, ergogenic aids, infectious agents and medications)	CE 20,21 PS 14
8. Signs and symptoms of injuries, illnesses and health-related conditions	CE 13,20,21 PS 12
9. Standard medical nomenclature and terminology	CE 1,2
10. The body's immediate and delayed physiological response to injuries, illnesses and health-related conditions	CE 2,20
Skill in:	---
11. Obtaining and recording information related to injuries, illnesses and health related conditions	CE 13,20,21 PS 12
12. Identifying anatomical structures involved in injuries, illnesses and health-related conditions	CE 1,2,20,21
13. Identifying nutritional factors related to injuries, illnesses and health-related conditions	CIP 1
14. Identifying psychosocial factors associated with injuries, illnesses and health-related conditions	CE 21
15. Identifying the extent and severity of injuries, illnesses and health-related conditions	CE 13
16. Identifying the impact of supplements and prescription and nonprescription medications associated with injuries, illnesses and health-related conditions	CIP 1,5
17. Interpreting medical records and related reports	CIP 9
18. Recognizing predisposing factors to specific injuries, illnesses and health-related conditions	CE 21
19. Relating signs and symptoms to specific injuries, illnesses and health-related conditions	CE 13,21
B. Utilize appropriate visual and palpation techniques to determine the type and extent of the injury, illness or health-related condition.	CE,PS
Knowledge of:	---
1. Human anatomy with emphasis on bony landmarks and soft tissue structures	CE 2,21
2. Immediate and delayed physiological response to injuries, illnesses and health-related conditions	CE 20
3. Normal and abnormal structural relationships to the pathomechanics of injuries and health-related conditions	CE 20
4. Principles of palpation techniques and visual inspection	CE 20
5. Response to injuries, illnesses and health-related conditions	CE 20
6. Signs of injuries, illnesses and health-related conditions	CE 20 PS 12

7. Standard medical nomenclature and terminology	CE 20
Skill in:	---
8. Assessing immediate and delayed physiological responses to injuries, illnesses and health-related conditions	CE 20
9. Assessing pre-existing structural abnormalities and relating them to pathomechanics of injuries, illnesses and health-related conditions	CE 20
10. Identifying bony surface landmarks and soft tissue abnormalities of specific injuries, illnesses and health-related conditions	CE 1,20 PS 12
11. Identifying the relationship and severity of pathological signs of injuries, illnesses and health-related conditions	CE 20
12. Locating and palpating bony landmarks, articulations, ligamentous structures, musculotendinous units and other soft tissues	CE 1,20,21
13. Palpating appropriate structures in order to assess the integrity of human anatomical/physiological systems	CE 1,20,21
14. Recognizing severity of pathological signs and symptoms of injuries, illnesses and health-related conditions	CE 20,21
C. Utilize appropriate tests (e.g., ROM, special tests, neurological tests) to determine the type and extent of the injury, illness or health-related condition.	PHP,CE
Knowledge of:	---
1. Mechanics, principles and techniques of specific/special tests (ligamentous, neurological, manual, fracture and functional tests)	CE 20,21
2. Signs and symptoms of systemic failure during exercise	CE 20,21
3. Signs, symptoms and interpretations of specific/special tests	CE 20,21
4. Standard/individual special tests for range of motion, muscular strength, structural integrity and functional capacity	PHP 26 CE 20,21
Skill in:	---
5. Assessing muscular strength through the use of manual or non-manual muscle tests	PHP 26 CE 20,21
6. Assessing neurological function	CE 20,21
7. Assessing joint range of motion using test and measurement techniques	CE 20,21
8. Identifying appropriate specific/special tests	PHP 26 CE 20,21
9. Identifying location, type, function and action of each joint	CE 20,21
10. Identifying structural and functional integrity of anatomical structures	PHP 26 CE 20,21
11. Interpreting the information gained from specific/special tests	CE 21

12. Performing specific/special tests	PHP 26 CE 20,21
13. Using equipment associated with specific/special tests	PHP 26 CE 20
D. Formulate a clinical diagnosis by interpreting the signs, symptoms and predisposing factors of the injury, illness or health-related condition to determine the appropriate course of action.	CE, TI, PS, PD, CIP
Knowledge of:	---
1. Basic pharmacology associated with diagnosis and courses of action	TI 24-31
2. Signs, symptoms and predisposing factors related to injuries, illnesses and health-related conditions	CE 21
3. Guidelines for return to participation	CE 7
4. Indications for referral	CE 16 PD 10
5. Standard medical terminology and nomenclature	CE 1
6. Pathomechanics of injuries and/or health-related conditions	CE 21
7. Psychosocial dysfunction and implications associated with injuries, illnesses and health-related conditions	PS 7,9
Skill in:	---
8. Identifying appropriate courses of action (e.g., treatment plan, referral)	CE 12,16 PD 10
9. Interpreting the pertinent information from the evaluation	CE 17,18,21
10. Synthesizing applicable information from an evaluation	CE 17,18,21 CIP 2
E. Educate the appropriate individual(s) about the clinical evaluation by communicating information about the injury, illness or health-related condition to encourage compliance with recommended care.	CE, AC, PS, PD, CIP
Knowledge of:	---
1. Commonly accepted practices regarding the care and treatment of injuries, illnesses and health-related conditions	PS 4,6
2. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PS 4,6
3. Patient confidentiality rules and regulations	PS 18 PD 3-5
4. Potential health-related complications and expected outcomes	CE 8
5. Role and scope of practice of various health care professionals	AC 2 PS 10 PD 1,2,8,9
6. Standard medical terminology and nomenclature	CE 1

Skill in:	---
7. Communicating with appropriate professionals regarding referral and treatment for individuals	PS 11,14
8. Directing a referral to the appropriate professionals	CE 16 PD 10
9. Interpreting standard medical terminology and nomenclature and describing the nature of injuries, illnesses and health-related conditions in basic terms	CE 1
10. Utilizing appropriate counseling techniques	CIP 7
11. Using standard medical terminology and nomenclature	CIP 9
DOMAIN III: Immediate and Emergency Care	---
A. Coordinate care of individual(s) through appropriate communication (e.g., verbal, written, demonstrative) of assessment findings to pertinent individual(s).	AC,PS,HA,PD,CIP
Knowledge of:	---
1. Components of the emergency action plan(s)	AC 2-4,8 HA 21
2. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PS 4
3. Roles of individual members of the medical management team	AC 2 PD 8,10
Skill in:	---
4. Communicating effectively with appropriate individuals (e.g., medical providers, patients, parents, administrators)	AC 2
5. Educating individuals regarding standard emergency care procedures	AC 2,3
6. Implementing the emergency action plan(s)	CIP 6
B. Apply appropriate immediate and emergency care procedures to prevent the exacerbation of health-related conditions to reduce the risk factors for morbidity and mortality.	PHP,CE,AC,TI, HA,PD,CIP
Knowledge of:	---
1. Appropriate management techniques for life-threatening health-related conditions (e.g., respiratory, cardiac and central nervous)	AC 5-7,19,20,22, 27,28,30,33,34,38
2. Appropriate use of emergency equipment and techniques (e.g., AED, CPR masks and BP cuff)	PHP 15,16 CE 23 AC 6-10,29,31,32,35 TI 28
3. Mechanisms (biomechanics/kinesiology) of catastrophic conditions	AC 23,24
4. Common life-threatening medical situations (e.g., respiratory, central nervous and cardiovascular)	AC 7,27,36
5. Emergency action plan(s)	HA 20
6. Federal and state occupational, safety and health guidelines	AC 21

	PD 4,5
7. Human physiology: normal and compromised functions	AC 7
8. Physiologic reactions to life-threatening conditions	AC 36
9. Pharmacological and therapeutic modality usage for acute health-related conditions	AC 27,31,32,35 TI 30
10. Signs and symptoms of common medical conditions	AC 27,36
11. Standard protective equipment and removal devices and procedures	AC 10
Skill in:	---
12. Applying pharmacological agents	CIP 4,6
13. Applying therapeutic modalities	CIP 4
14. Performing cardio-pulmonary resuscitation techniques and procedures	AC 12-18
15. Implementing emergency action plan(s)	AC 4 CIP 6
16. Implementing federal and state occupational, safety and health guidelines	PD 4,5
17. Implementing immobilization and transfer techniques	AC 23-26
18. Managing common non-life-threatening and life-threatening emergency situations/health-related conditions (e.g., evaluation, monitoring and provision of care)	AC 1,2,7,11-18
19. Measuring, monitoring and interpreting vital signs	AC 6,7,28,29,32
20. Removing protective equipment using appropriate removal devices and/or manual techniques	CIP 6
21. Transferring care to appropriate medical and/or allied health professionals and/or facilities	PD 10
22. Using standard medical equipment	AC 31,32 TI 28
23. Utilizing emergency equipment	CIP 6
C. Implement appropriate referral strategies, while stabilizing and/or preventing exacerbation of the condition(s), to facilitate the timely transfer of care for health-related conditions beyond the scope of practice of the Athletic Trainer.	AC,PS,HA,CIP
Knowledge of:	---
1. Common management strategies for life- and non-life-threatening health-related conditions	AC 36-39
2. Emergency action plan(s)	AC 1,2
3. Health-related conditions beyond the scope of the Athletic Trainer	PS 11
4. Indications for referral to other health care providers	PS 11,14,15
5. Roles of medical and allied health care providers	AC 2
Skill in:	---
6. Communicating with appropriate professionals regarding referral and treatment for individuals	PS 18
7. Directing a referral to the appropriate professionals	PS 11

8. Immobilization, splinting and transfer techniques	AC 37
9. Implementing the emergency action plan(s)	CIP 6
10. Managing common non-life-threatening and life-threatening emergency situations/health-related conditions until transfer to appropriate medical providers and facilities	AC 37
11. Recognizing acute health-related conditions beyond the scope of the Athletic Trainer	CIP 5,6
D. Demonstrate how to implement and direct immediate care strategies (e.g., first aid, emergency action plan) using established communication and administrative practices to provide effective care.	EBP,AC,PS,HA,CIP
Knowledge of:	---
1. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PS 4
2. Emergency action plan(s)	HA 20
3. Evidence based practice	EBP 1-14
4. Pertinent administrative practices	HA 29
5. Roles of medical and allied health care providers	AC 2
Skill in:	---
6. Implementing the emergency action plan(s)	HA 20
7. Implementing relevant administrative practices (e.g., injury reports, documentation, case reports)	CIP 9
8. Instruction of emergency care techniques	AC 43
DOMAIN IV: Treatment and Rehabilitation	---
A. Administer therapeutic and conditioning exercise(s) using appropriate techniques and procedures to aid recovery and restoration of function.	CE,TI,PS
Knowledge of:	---
1. Adaptation of the cardiovascular and muscular systems related to treatment, rehabilitation and reconditioning	TI 4,8
2. Age-specific considerations related to treatment, rehabilitation and reconditioning	TI 5,8
3. Available equipment and tools related to treatment, rehabilitation and reconditioning	CE 6 TI 10
4. Functional criteria for return to activity	CE 19 TI 7
5. Indications and contraindications related to treatment, rehabilitation and reconditioning	CE 7
6. Inflammatory process related to treatment, rehabilitation and reconditioning	TI 1
7. Neurology related to treatment, rehabilitation and reconditioning	TI 1,4,5
8. Pharmacology related to treatment, rehabilitation and reconditioning	TI 29,30
9. Principles of adaptation and overload of tissues	TI 4,5,8
10. Principles of adaptation of systems	TI 4,5,8

11. Principles of strength and conditioning exercises (e.g., plyometrics, core stabilization, speed, agility and power)	TI 8
12. Principles of therapeutic exercise (e.g., isometric, isotonic, isokinetic, work, power and endurance)	TI 8,13,17
13. Proprioception and kinesthesia related to treatment, rehabilitation and reconditioning	TI 8,17,24
14. Psychology related to treatment, rehabilitation and reconditioning	PS 7-10
15. Structure, growth, development and regeneration of tissue	TI 1,4,5
16. Surgical procedures and implications for treatment, rehabilitation and reconditioning	TI 6
Skill in:	---
17. Applying exercise prescription in the development and implementation of treatment, rehabilitation and reconditioning (e.g., aquatics, isokinetics and closed-chain)	TI 11,17
18. Evaluating criteria for return to activity	CE 19,20,22 TI 11 PS 3
B. Administer therapeutic modalities (e.g., electromagnetic, manual, mechanical) using appropriate techniques and procedures based on the individual's phase of recovery to restore functioning.	CE, TI, CIP
Knowledge of:	---
1. Available therapeutic modalities related to treatment, rehabilitation and reconditioning	TI 10,14
2. Indications and contraindications for therapeutic modalities	TI 11
3. Inflammatory process related to therapeutic modalities	TI 1
4. Pharmacology related to therapeutic modalities	TI 21-23
5. Physiological response to therapeutic modalities	TI 3,5,8
6. Principles of mechanical, electromagnetic and acoustical energy	TI 8,9
7. Principles of therapeutic exercise (e.g., isometric, isotonic, isokinetic, work, power and endurance)	TI 8
8. Structure, growth, development and regeneration of tissue	TI 8
9. Theories of pain	TI 2,3
Skill in:	---
10. Applying manual therapy techniques	TI 13-15
11. Applying thermal, electrical, mechanical and acoustical modalities	TI 9
12. Communicating with appropriate professionals regarding referral and treatment for individuals	CE 22 TI 11
13. Recognizing the status of systemic illnesses	TI 11 CIP 5
14. Recognizing the status of bacterial, viral, fungal and parasitic infections	CIP 5
C. Apply braces, splints or other assistive devices according to appropriate practices in order to facilitate injury protection to achieve optimal functioning for the individual.	PHP, CE, TI
Knowledge of:	---

1. Commercially available soft goods	TI 16
2. Functions of bracing	TI 16
3. Legal risks and ramifications for bracing	PHP 20
4. Pathomechanics of common and catastrophic injury	CE 3,4
5. Materials and methods for fabricating custom-made devices	TI 16
6. Pathomechanics of the injury or condition	CE 3-5
Skill in:	---
7. Applying braces, splints or assistive devices	TI 16
8. Fabricating braces, splints or assistive devices	TI 16
D. Administer treatment for injury, illness and/or health-related conditions using appropriate methods to facilitate injury protection, recovery and/or optimal functioning for individual(s).	EBP,PHP,CE,TI, PS,HA,CIP
Knowledge of:	---
1. Available reference sources related to injuries, illnesses and health-related conditions	EBP 6
2. Medical and allied health care professionals involved in the treatment of injuries, illnesses and health-related conditions	CE 22
3. Pathophysiology associated with systemic illness, communicable diseases and infections (e.g., bacterial, viral, fungal and parasitic)	PHP 5,6 HA 15
4. Pharmacology related to the treatment of injuries, illnesses and health-related conditions	TI 25-30 PHP 48
5. Psychological reaction to injuries, illnesses and health-related conditions	TI 8 PS 1,2
6. Structure, growth, development and regeneration of tissue	TI 8
Skill in:	---
7. Applying topical wound or skin care products	CIP 4,5
8. Applying thermal, electrical, mechanical and acoustical modalities	TI 9
9. Communicating with appropriate professionals regarding referral and treatment for individuals	CE 22 TI 10,31 PS 6
10. Directing a referral to the appropriate professionals	CE 22 PS 11
11. Indications for referral	CE 22 PS 14
12. Recognizing the status of systemic illnesses	CIP 5
13. Recognizing the status of bacterial, viral, fungal and parasitic infections	CIP 5

E. Reassess the status of injuries, illnesses and/or health-related conditions using appropriate techniques and documentation strategies to determine appropriate treatment, rehabilitation and/or reconditioning and to evaluate readiness to return to a desired level of activity.	CE, TI, PS, HA
Knowledge of:	---
1. Adaptation of the cardiovascular and muscular systems related to rehabilitation, recovery and performance	TI 5,18
2. Age-specific considerations related to rehabilitation, recovery and performance	CE 7 TI 5
3. Appropriate documentation protocols	HA 11,12
4. Functional criteria for return to activity	CE 19 TI 7
5. Indications and contraindications related to rehabilitation, recovery and performance	TI 5,8
6. Inflammatory process related to rehabilitation, recovery and performance	TI 1
7. Neurology related to rehabilitation, recovery and performance	TI 5
8. Principles of adaptation and overload of tissues	TI 4
9. Principles of strength and conditioning exercises (e.g., plyometrics, core stabilization, speed, agility and power)	TI 8
10. Principles of therapeutic exercise (e.g., isometric, isotonic, isokinetic, work, power and endurance)	TI 8
11. Proprioception and kinesthesia related to rehabilitation, recovery and performance	TI 8
12. Psychology effects related to rehabilitation, recovery and performance	PS 7
13. Structure, growth, development and regeneration of tissue	TI 5,8
14. Surgical procedures and implications for rehabilitation, recovery and performance	TI 6
Skill in:	---
15. Evaluating criteria for return to activity	CE 9,19 TI 7
16. Interpreting assessment information necessary to modify, continue or discontinue treatment plans	CE 14,15 TI 4,7,10,12
F. Provide guidance and/or referral to specialist for individual(s) and groups through appropriate communication strategies (e.g., oral and education materials) to restore an individual(s) optimal functioning.	CE, TI, PS, HA, PD, CIP
Knowledge of:	---
1. Applicable methods and materials for education	PS 4,5
2. Appropriate documentation protocols	HA 11
3. Available support systems (e.g., psychosocial, community, family and health care) related to rehabilitation, recovery and performance	PS 11 HA 30

4. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PS 4,5
5. Learning process across the lifespan	PD 7 PS 5
6. Psychology effects related to rehabilitation, recovery and performance	PS 3,7-9
7. Referral resources	CE 22 PD 10
Skill in:	---
8. Communicating with appropriate professionals regarding referral and treatment for individuals	CIP 9
9. Directing a referral to the appropriate professionals	CE 22 PS 11 PD 10
10. Identifying appropriate individuals to educate	TI 10 PS 18
11. Indications for referral	CE 22 PS 14 PD 10
12. Providing guidance/counseling for the individual during the treatment, rehabilitation and reconditioning process	PS 4,7,8,10
DOMAIN V: Organizational and Professional Health and Well-being	---
A. Apply basic internal business functions (e.g., business planning, financial operations, staffing) to support individual and organizational growth and development.	HA,PD
Knowledge of:	---
1. Appropriate computer software applications	HA 12
2. Credentialing systems and general requirements for pertinent professions	PD 2,6
3. Facility design and operation	HA 5,29
4. Human resource management	HA 12-14
5. Institutional budgeting and procurement process	HA 6,8
6. Institutional and federal employment regulations (e.g., EEOC, ADA and Title IX)	HA 15-17 PD 3
7. Management techniques	HA 2,3
8. Leadership styles	HA 2,3
9. Revenue generation strategies	HA 7,25-28
10. Staff scheduling, patient flow and allocation of resources	HA 2,6,8
11. Storage and inventory procedures	HA 6
12. Strategic planning and goal setting	HA 3,4

Skill in:	---
13. Facility design, operation and management (e.g., planning, organizing, designing, scheduling, coordinating, budgeting)	HA 5
14. Managing financial resources (e.g., planning, budgeting, resource allocation, revenue generation)	HA 6,8
15. Managing human resources (e.g., delegating, planning, staffing, hiring, firing and conducting performance evaluations)	HA 12-14
16. Using computer software applications (e.g., word processing, data base spreadsheet and Internet applications)	HA 6,8
B. Apply basic external business functions (e.g., marketing and public relations) to support organizational sustainability, growth and development.	HA,PD
Knowledge of:	---
1. Appropriate computer software applications	HA 12
2. Credentialing systems and general requirements for pertinent professions	PD 3
3. Facility design and operation	HA 5,29
4. Human resource management	HA 12-14
5. Institutional budgeting and procurement process	HA 6,8
6. Institutional and federal employment regulations (e.g., EEOC, ADA and Title IX)	HA 15,16,17 PD 3
7. Management techniques	HA 2,3
8. Leadership styles	HA 2,3
9. Revenue generation strategies	HA 7,25-28
10. Staff scheduling, patient flow and allocation of resources	HA 2
11. Storage and inventory procedures	HA 6
12. Strategic planning and goal setting	HA 3,4
Skill in:	---
13. Facility design, operation and management (e.g., planning, organizing, designing, scheduling, coordinating, budgeting)	HA 5
14. Managing financial resources (e.g., planning, budgeting, resource allocation, revenue generation)	HA 6,8
15. Managing human resources (e.g., delegating, planning, staffing, hiring, firing and conducting performance evaluations)	HA 12-14
16. Using computer software applications (e.g., word processing, data base spreadsheet and Internet applications)	HA 6,8
C. Maintain records and documentation that comply with organizational, association and regulatory standards to provide quality of care and to enable internal surveillance for program validation and evidence-based interventions.	EBP,PHP,CE,AC, TI,HA,PD,CIP
Knowledge of:	---

1. Appropriate computer software applications	HA 11
2. Credentialing systems and general requirements for pertinent professions	PD 3
3. Criteria for determining the legal standard of care in athletic training (e.g., state statutes and regulations, professional standards and guidelines, publications, customs, practices and societal expectations)	AC 1 TI 21
4. Evidence based practice, epidemiology studies and clinical outcomes assessment	CE 10,11 TI 7
5. Federal and state statutes, regulations, and adjudication that apply to the practice and/or organization and administration of athletic training (e.g., OSHA, DEA, Title IX, Civil Rights Act, HIPAA, Buckley Amendment, labor practices, patient confidentiality, insurance and record keeping)	PD 3 HA 10
6. Guidelines and regulations for decreasing exposure to environmental hazards	PD 3,5
7. Guidelines for development of risk management policies and procedures	PD 3,5
8. Institutional drug testing and substance abuse policies	PHP 17,18
9. Institutional, governmental and appropriate organizational guidelines for safety, health care delivery and legal compliance	PD 3-5
10. Institutional review boards, policies and procedures regarding informed consent guidelines	PD 8
11. Institutional risk management policies and procedures	PHP 18 HA 18
12. Prescreening participation guidelines	HA 23
13. Relevant policy and position statements of appropriate organizations (e.g., ACSM, AOASM, AOSSM, AMSSM, NCAA, NATA, NFHSA, NAIA, USOC)	PD 5
14. Standard medical terminology and nomenclature	CE 1 TI 22
15. State statutes, regulations and adjudication that directly govern the practice of athletic training (e.g., state practice and title acts, state professional conduct and misconduct acts, liability and negligence)	PD 3-5
16. State statutes, regulations and adjudication governing other professions which impact the practice of athletic training (e.g., medicine, physical therapy, nursing, pharmacology)	PD 8
Skill in:	---
17. Creating and completing the documentation process	HA 9,11
18. Obtaining, interpreting, evaluating and applying relevant research data, literature and/or other forms of information	TI 7
19. Obtaining, interpreting, evaluating and applying relevant policy and position statements	PD 3,5
20. Interacting with appropriate administration leadership	CIP 9
21. Researching practice methods and procedures	EBP 1-14
22. Researching professional standards and guidelines (e.g., BOC, NATA, state organizations)	HA 10 PD 3-6

23. Using computer software applications (e.g., word processing, data base spreadsheet and Internet applications)	CIP 9
D. Demonstrate appropriate planning for coordination of resources (e.g., personnel, equipment, liability, scope of service) in event medical management and emergency action plans.	EBP,PHP,AC,TI, PS,HA,PD,CIP
Knowledge of:	---
1. Appropriate medical equipment and supplies	AC 8-10,13,15,16,18 HA 19,20
2. Criteria for determining the legal standard of care in athletic training (e.g., state statutes and regulations, professional standards and guidelines, publications, customs, practices and societal expectations)	PD 3-6
3. Federal and state statutes, regulations and adjudication that apply to the practice and/or organization and administration of athletic training (e.g., OSHA, DEA, Title IX, Civil Rights Act, HIPAA, Buckley Amendment, labor practices, patient confidentiality, insurance and record keeping)	TI 21 HA 15-17
4. Institutional drug testing and substance abuse policies	PHP 49 PS 14,15
5. Institutional, governmental and appropriate organizational guidelines for safety, health care delivery and legal compliance	HA 29 PD 3-6
6. Institutional review boards, policies and procedures regarding informed consent guidelines	PD 8
7. Institutional risk management policies and procedures	HA 18,19
8. Prescreening participation guidelines	HA 23
9. Reimbursement issues	HA 25-28
10. Staff preparedness	HA 20-22
11. State statutes, regulations and adjudication that directly govern the practice of athletic training (e.g., state practice and title acts, state professional conduct and misconducts acts, liability and negligence)	HA 15-17 PD 3-6
12. State statutes, regulations and adjudication governing other professions that impact the practice of athletic training (e.g., medicine, physical therapy, nursing, pharmacology)	HA 15-17 PD 8
13. Site-specific access issues	HA 20
Skill in:	---
14. Creating and completing the documentation process	CIP 9
15. Interacting with appropriate administration leadership	CIP 9
16. Obtaining, interpreting, evaluating and applying relevant policy and position statements	PD 8
17. Researching practice methods and procedures	EBP 1-14
18. Researching professional standards and guidelines (e.g., BOC, NATA, state organizations)	PD 3-5
19. Using computer software applications (e.g., word processing, data base spreadsheet and Internet applications)	CIP 9

E. Demonstrate an understanding of statutory and regulatory provisions and professional standards of the practice of athletic training in order to provide for the safety and welfare of individual(s) and groups.	PHP, TI, PS, PD
Knowledge of:	---
1. Appropriate equipment and facility inspection procedures and documentation	PHP 18 TI 19,20
2. Criteria for determining the legal standard of care in athletic training (e.g., state statutes and regulations, professional standards and guidelines, publications, customs, practices and societal expectations)	PD 3-5
3. Federal and state statutes, regulations and adjudication which apply to the practice and/or organization and administration of athletic training (e.g., OSHA, DEA, Title IX, Civil Rights Act, HIPAA, Buckley Amendment, labor practices, patient confidentiality, insurance, record keeping)	TI 21 PS 18 PD 4,6
4. Institutional, professional and governmental guidelines for maintenance of facilities and equipment	PD 4
5. Manufacturer's operational guidelines	PHP 20 TI 19
6. Safe playing and treatment environments	PHP 12,18
7. State statutes, regulations and adjudication that directly govern the practice of athletic training (e.g, state practice and title acts, state professional conduct and misconducts acts, liability and negligence)	PD 4,6
8. State statutes, regulations and adjudication governing other professions which impact the practice of athletic training (e.g., medicine, physical therapy, nursing, pharmacology)	PD 4
Skill in:	---
9. Researching and applying state and federal statutes, regulations and adjudications	PD 4,6
10. Researching professional standards and guidelines (e.g., BOC, NATA, state organizations)	PD 4,6
11. Researching practice methods and procedures	PD 4-6
F. Develop a support/referral process for interventions to address unhealthy lifestyle behaviors.	AC, PS, HA, PD, CIP
Knowledge of:	---
1. Appropriate professional behaviors	PD 5,6
2. Credentialing systems and general requirements for health care professions	PD 5,6
3. Community resources	PD 8,10 AC 2
4. Confidentiality policies	PS 18
5. Effective communication techniques (e.g., multimedia videos, pamphlets, posters, models, handouts and oral communication)	PS 4
6. Effective meeting planning	PD 10
7. Federal and state statutes, regulations and adjudication which apply to the practice and/or organization and administration of athletic training (e.g., OSHA, DEA, Title IX, Civil Rights Act, HIPAA, Buckley Amendment, labor practices, patient confidentiality, insurance, record keeping)	HA 31 PD 4,6

8. Institutional and governmental regulations regarding drug use, substance abuse and mental illness	PD 3-5
9. Institutional chain of command	
10. Role and scope of practice of various health care professionals	HA 1 PD 4-6
Skill in:	---
11. Communicating with appropriate professionals regarding referral and treatment for individuals	PD 10
12. Directing a referral to the appropriate professionals	PD 10 CIP 8
13. Identifying appropriate individuals to educate	CIP 3,9
14. Indications for referral	PD 10
15. Interpreting standard medical terminology and nomenclature for appropriate individuals	CIP 9
16. Mitigating conflict	HA 2
17. Networking and recruiting qualified medical team members	PS 11
18. Nurturing professional relationships	PS 11
19. Providing guidance/counseling for the individual during the treatment, rehabilitation and reconditioning process	CIP 7
20. Respecting diversity of opinions and positions	PS 5