



**Commission on Accreditation of Allied  
Health Education Programs  
Standards and Guidelines**  
*for the Accreditation of Educational Programs in Kinesiotherapy*  
*Standards initially adopted in 1998*  
*Revised in 2005, 2012*

**Adopted by the**  
*American Kinesiotherapy Association*  
*American Council on Exercise*  
*Committee on Accreditation for Education Programs for Kinesiotherapy*  
*Commission on Accreditation of Allied Health Education Programs*

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredits programs upon the recommendation of the Committee on Accreditation for Education Programs for Kinesiotherapy (CoA-KT).

These accreditation **Standards** are the minimum standards of quality used in accrediting programs that prepare individuals to enter the kinesiotherapy profession. **Standards** are the minimum requirements to which an accredited program is held accountable. Guidelines are descriptions, examples, or recommendations that elaborate on the Standards. Guidelines are not required, but can assist with interpretation of the Standards.

Standards are printed in regular typeface in outline form. *Guidelines* are printed in italic typeface in narrative form.

### **Preamble**

The Commission on Accreditation of Allied Health Education Programs (CAAHEP), Committee on Accreditation for Educational Programs for Kinesiotherapy, and the American Kinesiotherapy Association cooperate to establish, maintain and promote appropriate standards of quality for educational programs in Kinesiotherapy and to provide recognition for educational programs that meet or exceed the minimum standards outlined in these accreditation **Standards and Guidelines**. Lists of accredited programs are published for the information of students, employers, educational institutions and agencies, and the public.

These **Standards and Guidelines** are to be used for the development, evaluation, and self-analysis of kinesiotherapy programs. On-site review teams assist in the evaluation of a program's relative compliance with the accreditation **Standards**.

### **Description of the Profession**

Kinesiotherapy is the application of scientifically based exercise principles adapted to enhance the strength, endurance, and mobility of individuals with functional limitations or those requiring extended physical conditioning. The kinesiotherapist is a health care professional competent in the administration of musculoskeletal, neurological, ergonomic, biomechanical, psychological, and task-specific functional tests and measures. The kinesiotherapist determines the appropriate evaluation tools and interventions necessary to establish, in collaboration with the client, a goal-specific treatment plan. Kinesiotherapists administer treatment upon receipt of a

prescription from physicians, Nurse Practitioners or Physician Assistants who have legal privileges to make such referrals.

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## **I. Sponsorship**

### **A. Sponsoring Educational Institution**

A sponsoring institution must be a post-secondary academic institution accredited by an institutional accrediting agency that is recognized by the U.S. Department of Education, and must be authorized under applicable law or other acceptable authority to provide a post-secondary program, which awards a minimum of a baccalaureate degree at the completion of the program.

### **B. Consortium Sponsor**

1. A consortium sponsor is an entity consisting of two or more members that exists for the purpose of operating an educational program. In such instances, at least one of the members of the consortium must meet the requirements of a sponsoring educational institution as described in I.A.
2. The responsibilities of each member of the consortium must be clearly documented as a formal affiliation agreement or memorandum of understanding, which includes governance and lines of authority.

### **C. Responsibilities of Sponsor**

The Sponsor must assure that the provisions of these **Standards and Guidelines** are met.

## **II. Program Goals**

### **A. Program Goals and Outcomes**

There must be a written statement of the program's goals and learning domains consistent with and responsive to the demonstrated needs and expectations of the various communities of interest served by the educational program. The communities of interest that are served by the program must include, but are not limited to, students, graduates, faculty, sponsor administration, employers, physicians, and the public.

Program-specific statements of goals and learning domains provide the basis for program planning, implementation, and evaluation. Such goals and learning domains must be compatible with both the mission of the sponsoring institution(s) and the expectations of the communities of interest, and nationally accepted standards of roles and functions. Goals and learning domains are based upon the substantiated needs of health care providers and employers, and the educational needs of the students served by the educational program.

### **B. Appropriateness of Goals and Learning Domains**

The program must regularly assess its goals and learning domains. Program personnel must identify and respond to changes in the needs and/or expectations of its communities of interest.

An advisory committee, which is representative of these communities of interest named in these **Standards**, must be designated and charged with the responsibility of meeting at least annually, to assist program and sponsor personnel in formulating and periodically revising appropriate goals and learning domains, monitoring needs and expectations, and ensuring program responsiveness to change.

### **C. Minimum Expectations**

The program must have the following goal defining minimum expectations: “To prepare competent entry-level kinesiotherapists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.”

Programs adopting educational goals beyond entry-level competence must clearly delineate this intent and provide evidence that all students have achieved the basic competencies prior to entry into the field.

*Nothing in this Standard restricts programs from formulating goals beyond entry-level competence.*

## **III. Resources**

### **A. Type and Amount**

Program resources must be sufficient to ensure the achievement of the program’s goals and outcomes. Resources must include, but are not limited to: faculty; clerical and support staff; curriculum; finances; offices; classroom, laboratory, and ancillary student facilities; clinical affiliations; equipment; supplies; computer resources; instructional reference materials, and faculty/staff continuing education.

### **B. Personnel**

The sponsor must appoint sufficient faculty and staff with the necessary qualifications to perform the functions identified in documented job descriptions and to achieve the program’s stated goals and outcomes.

#### **1. Program Director**

**a. Responsibilities** - The program director must be responsible for the organization, administration, and continuous review, planning, development, and general effectiveness of the program.

**b. Qualifications** - The program director must:

- 1) be a Registered Kinesiotherapist in good standing,
- 2) possess at least 2 years of experience as a kinesiotherapist,
- 3) possess prior teaching experience, and
- 4) possess at least a Master’s degree.

#### **2. Medical Advisor**

**a. Responsibilities** - The Medical Advisor must provide the input necessary to ensure that the medical components of the curriculum, both didactic and supervised clinical practice, meet current standards of medical practice.

- b. **Qualifications** - The medical advisor must be a licensed physician experienced and proficient in the use of therapeutic exercise and education.

### 3. **Faculty and/or Instructional Staff**

- a. **Responsibilities** - In all classrooms, laboratories, and clinical settings where students are assigned, there must be qualified individuals designated to assure supervision and related frequent assessments of the students' progress in achieving acceptable program requirements.

*Faculty members at all levels of participation should be familiar with the goals of the program and capable of developing an organized plan of instruction and evaluation.*

- b. **Qualifications**

Instructors must be knowledgeable in course content. They must be effective in teaching their assigned subjects. Kinesiotherapists who provide instruction in the clinical setting must be Registered Kinesiotherapists in good standing.

### C. **Curriculum**

The curriculum must ensure the achievement of program goals and learning domains. Instruction must be an appropriate sequence of classroom, laboratory, and clinical activities. Instruction must be based on clearly written course syllabi that include course description, course objectives, methods of evaluation, topic outline, and competencies required for graduation.

The program must demonstrate by comparison that the curriculum offered meets or exceeds the content of Standard 1 in the most current version of the CURRICULUM COMPETENCY REQUIREMENTS (see Appendix B).

### D. **Resource Assessment**

The program must, at least annually, assess the appropriateness and effectiveness of the resources described in these **Standards**. The results of resource assessment must be the basis for ongoing planning and appropriate change. An action plan must be developed when deficiencies are identified in the program resources. Implementation of the action plan must be documented and results measured by ongoing resource assessment.

## IV. **Student and Graduate Evaluation/Assessment**

### A. **Student Evaluation**

#### 1. **Frequency and Purpose**

Evaluation of students must be conducted on a recurrent basis and with sufficient frequency to provide both the students and program faculty with valid and timely indications of the students' progress toward and achievement of the competencies and learning domains stated in the curriculum.

#### 2. **Documentation**

Records of student evaluations must be maintained in sufficient detail to document learning progress and achievements.

## **B. Outcomes**

### **1. Outcomes Assessment**

The program must periodically assess its effectiveness in achieving its stated goals and learning domains. The results of this evaluation must be reflected in the review and timely revision of the program.

Outcomes assessments include, but are not limited to: national credentialing examination(s), programmatic retention/attrition, graduate satisfaction, employer satisfaction, positive placement, and program summative measures. The program must meet the outcomes assessment thresholds.

*“Positive placement” means that the graduate is employed full or part-time in a related field; and/or continuing his/her education; and/ or serving in the military.*

Participation and pass rates on national credentialing examination(s) performance may be considered in determining whether or not a program meets the designated threshold, provided the credentialing examination(s), or alternative examination(s) offered by the same credentialing organization, is/are available to be administered prior to graduation from the program.

### **2. Outcomes Reporting**

The program must periodically submit to the CoA-KT the program goal(s), learning domains, evaluation systems (including type, cut score, and appropriateness), outcomes, its analysis of the outcomes and an appropriate action plan based on the analysis.

Programs not meeting the established thresholds must begin a dialogue with the CoA-KT to develop an appropriate plan of action to respond to the identified shortcomings.

## **V. Fair Practices**

### **A. Publications and Disclosure**

1. Announcements, catalogs, publications, and advertising must accurately reflect the program offered.
2. At least the following must be made known to all applicants and students: the sponsor’s institutional and programmatic accreditation status as well as the name, mailing address, web site address, and phone number of the accrediting agencies; admissions policies and practices; including technical standards (when used) policies on advanced placement, transfer of credits, and credits for experiential learning; number of credits required for completion of the program; tuition/fees and other costs required to complete the program; policies and processes for withdrawal and for refunds of tuition/fees.
3. At least the following must be made known to all students: academic calendar, student grievance procedure, criteria for successful completion of each segment of

- the curriculum and graduation, and policies and processes by which students may perform clinical work while enrolled in the program.
4. The sponsor must maintain, and make available to the public, current and consistent summary information about student/graduate achievement that includes the results of one or more of the outcomes assessments required in these **Standards**.

*The sponsor should develop a suitable means of communicating to the communities of interest the achievement of students/graduates (e.g. through a website or electronic or printed documents).*

#### **B. Lawful and Non-discriminatory Practices**

All activities associated with the program, including student and faculty recruitment, student admission, and faculty employment practices, must be non discriminatory and in accord with federal and state statutes, rules, and regulations. There must be a faculty grievance procedure made known to all paid faculty.

#### **C. Safeguards**

The health and safety of patients, students, and faculty associated with the educational activities of the students must be adequately safeguarded.

All activities required in the program must be educational and students must not be substituted for staff.

#### **D. Student Records**

Satisfactory records must be maintained for student admission, advisement, counseling, and evaluation. Grades and credits for courses must be recorded on the student transcript and permanently maintained by the sponsor in a safe and accessible location.

#### **E. Substantive Change**

The sponsor must report substantive change(s) as described in Appendix A to CAAHEP/CoA-KT in a timely manner. Additional substantive changes to be reported to CoA-KT within the time limits prescribed include:

1. Continued curriculum alignment with the CURRICULUM COMPETENCY REQUIREMENTS (Appendix B)

#### **F. Agreements**

There must be a formal affiliation agreement or memorandum of understanding between the sponsor and all other entities that participate in the education of the students describing the relationship, role, and responsibilities between the sponsor and that entity.

*Entities that participate include: hospital/clinical sites and field/internship sites.*

## APPENDIX A

(This Appendix will be added by CAAHEP after final approval of the **Standards and Guidelines** document.)

### Application, Maintenance and Administration of Accreditation

#### A. Program and Sponsor Responsibilities

##### 1. Applying for Initial Accreditation

- a. The chief executive officer or an officially designated representative of the sponsor completes a "Request for Accreditation Services" form and returns it electronically or by mail to:

Committee on Accreditation of Education Programs for Kinesiotherapy  
118 College Drive #5142  
Hattiesburg, MS 39406

The "Request for Accreditation Services" form can be obtained from the CAAHEP website at [www.caahep.org/Content.aspx?ID=11](http://www.caahep.org/Content.aspx?ID=11).

**Note:** There is **no** CAAHEP fee when applying for accreditation services; however, individual committees on accreditation may have an application fee.

- b. The program undergoes a comprehensive review, which includes a written self-study report and an on-site review.

The self-study instructions and report form are available from the Committee on Accreditation of Education Programs for Kinesiotherapy. The on-site review will be scheduled in cooperation with the program and Committee on Accreditation of Education Programs for Kinesiotherapy once the self-study report has been completed, submitted, and accepted by the Committee on Accreditation of Education Programs for Kinesiotherapy.

##### 2. Applying for Continuing Accreditation

- a. Upon written notice from the CoA-KT, the chief executive officer or an officially designated representative of the sponsor completes a "Request for Accreditation Services" form, and returns it electronically or by mail to:

Committee on Accreditation of Education Programs for Kinesiotherapy  
118 College Drive #5142  
Hattiesburg, MS 39406

The "Request for Accreditation Services" form can be obtained from the CAAHEP website at [www.caahep.org/Content.aspx?ID=11](http://www.caahep.org/Content.aspx?ID=11).

- b. The program may undergo a comprehensive review in accordance with the policies and procedures of the CoA-KT.

If it is determined that there were significant concerns with the conduct of the on-site review, the sponsor may request a second site visit with a different team.

After the on-site review team submits a report of its findings, the sponsor is provided the opportunity to comment in writing and to correct factual errors prior to the Committee on Accreditation of Education Programs for Kinesiotherapy forwarding a recommendation to CAAHEP.

### **3. Administrative Requirements for Maintaining Accreditation**

- a. The program must inform the CoA-KT and CAAHEP within a reasonable period of time (as defined by the committee on accreditation and CAAHEP policies) of changes in chief executive officer, dean of health professions or equivalent position, and required program personnel (Refer to Standard III.B.).
- b. The sponsor must inform CAAHEP and the Committee on Accreditation of Education Programs for Kinesiotherapy of its intent to transfer program sponsorship. To begin the process for a Transfer of Sponsorship, the current sponsor must submit a letter (signed by the CEO or designated individual) to CAAHEP and the Committee on Accreditation of Education Programs for Kinesiotherapy that it is relinquishing its sponsorship of the program. Additionally, the new sponsor must submit a "Request for Transfer of Sponsorship Services" form. The Committee on Accreditation of Education Programs for Kinesiotherapy has the discretion of requesting a new self-study report with or without an on-site review. Applying for a transfer of sponsorship does not guarantee that the transfer of accreditation will be granted.
- c. The sponsor must promptly inform CAAHEP and the Committee on Accreditation of Education Programs for Kinesiotherapy of any adverse decision affecting its accreditation by recognized institutional accrediting agencies and/or state agencies (or their equivalent).
- d. Comprehensive reviews are scheduled by the CoA-KT in accordance with its policies and procedures. The time between comprehensive reviews is determined by the Committee on Accreditation of Education Programs for Kinesiotherapy and based on the program's on-going compliance with the Standards, however, all programs must undergo a comprehensive review at least once every ten years.
- e. The program and the sponsor must pay Committee on Accreditation of Education Programs for Kinesiotherapy and CAAHEP fees within a reasonable period of time, as determined by the Committee on Accreditation of Education Programs for Kinesiotherapy and CAAHEP respectively.
- f. The sponsor must file all reports in a timely manner (self-study report, progress reports, probation reports, annual reports, etc.) in accordance with CoA-KT policy.



- g. The sponsor must agree to a reasonable on-site review date that provides sufficient time for CAAHEP to act on a CoA-KT accreditation recommendation prior to the “next comprehensive review” period, which was designated by CAAHEP at the time of its last accreditation action, or a reasonable date otherwise designated by the CoA-KT.

Failure to meet any of the aforementioned administrative requirements may lead to administrative probation and ultimately to the withdrawal of accreditation. CAAHEP will immediately rescind administrative probation once all administrative deficiencies have been rectified.

#### **4. Voluntary Withdrawal of a CAAHEP- Accredited Program**

Notification of voluntary withdrawal of accreditation from CAAHEP must be made by the Chief Executive Officer or an officially designated representative of the sponsor by writing to CAAHEP indicating: the desired effective date of the voluntary withdrawal, and the location where all records will be kept for students who have completed the program.

#### **5. Requesting Inactive Status of a CAAHEP- Accredited Program**

Inactive status for any accredited program other than one holding Initial Accreditation may be requested from CAAHEP at any time by the Chief Executive Officer or an officially designated representative of the sponsor writing to CAAHEP indicating the desired date to become inactive. No students can be enrolled or matriculated in the program at any time during the time period in which the program is on inactive status. The maximum period for inactive status is two years. The sponsor must continue to pay all required fees to the Committee on Accreditation of Education Programs for Kinesiotherapy and CAAHEP to maintain its accreditation status.

To reactivate the program the Chief Executive Officer or an officially designated representative of the sponsor must provide notice of its intent to do so in writing to both CAAHEP and the Committee on Accreditation of Education Programs for Kinesiotherapy. The sponsor will be notified by the Committee on Accreditation of Education Programs for Kinesiotherapy of additional requirements, if any, that must be met to restore active status.

If the sponsor has not notified CAAHEP of its intent to re-activate a program by the end of the two-year period, CAAHEP will consider this a “Voluntary Withdrawal of Accreditation.”

### **B. CAAHEP and Committee on Accreditation Responsibilities – Accreditation Recommendation Process**

1. After a program has had the opportunity to comment in writing and to correct factual errors on the on-site review report, the Committee on Accreditation of Education Programs for Kinesiotherapy forwards a status of public recognition recommendation to the CAAHEP Board of Directors. The recommendation may be for any of the following statuses: initial accreditation, continuing accreditation, transfer of sponsorship, probationary accreditation, withhold of accreditation, or withdrawal of accreditation.

The decision of the CAAHEP Board of Directors is provided in writing to the sponsor immediately following the CAAHEP meeting at which the program was reviewed and voted upon.

2. Before the Committee on Accreditation of Education Programs for Kinesiotherapy allows the Initial Accreditation of a program to expire, the sponsor must have the opportunity to request reconsideration of that decision or to request voluntary withdrawal of accreditation. The CoA-KT's decision is final and CAAHEP will not entertain any appeal on behalf of the program. CAAHEP will notify the sponsor in writing of the CoA-KT's decision.
3. Before the Committee on Accreditation of Education Programs for Kinesiotherapy forwards a recommendation to CAAHEP that a program be placed on probationary accreditation, the sponsor must have the opportunity to request reconsideration of that recommendation or to request voluntary withdrawal of accreditation. The CoA-KT's reconsideration of a recommendation for probationary accreditation must be based on conditions existing both when the committee arrived at its recommendation as well as on subsequent documented evidence of corrected deficiencies provided by the sponsor.

The CAAHEP Board of Directors' decision to confer probationary accreditation is not subject to appeal.

4. Before the Committee on Accreditation of Education Programs for Kinesiotherapy forwards a recommendation to CAAHEP that a program's accreditation be withdrawn or that accreditation be withheld, the sponsor must have the opportunity to request reconsideration of the recommendation, or to request voluntary withdrawal of accreditation or withdrawal of the accreditation application, whichever is applicable. The CoA-KT's reconsideration of a recommendation of withdraw or withhold accreditation must be based on conditions existing both when the Committee on Accreditation of Education Programs for Kinesiotherapy arrived at its recommendation as well as on subsequent documented evidence of corrected deficiencies provided by the sponsor.

The CAAHEP Board of Directors' decision to withdraw or withhold accreditation may be appealed. A copy of the CAAHEP "Appeal of Adverse Accreditation Actions" is enclosed with the CAAHEP letter notifying the sponsor of either of these actions.

At the completion of due process, when accreditation is withheld or withdrawn, the sponsor's Chief Executive Officer is provided with a statement of each deficiency. Programs are eligible to re-apply for accreditation once the sponsor believes that the program is in compliance with the accreditation Standards.

**Note: Any student who completes a program that was accredited by CAAHEP at any time during his/her matriculation is deemed by CAAHEP to be a graduate of a CAAHEP-accredited program.**

## APPENDIX B

### CURRICULUM COMPETENCY REQUIREMENTS

#### 1. Biological Sciences

##### A. Anatomy and Physiology

- 1) Identify the basic structure-function relationships of the human body.
  - a) List anatomical planes, surfaces, positions, and directions used to describe the human body and its parts.
  - b) Describe the types, features, and functions of connective tissue.
  - c) Describe the development and function of the skeletal system.
  - d) Classify and identify the bones of the skeletal system.
  - e) Describe the types, features, and functions of muscle tissue.
  - f) Identify the origin and insertion of the major muscles of the body.
  - g) Discuss the fundamental movements of the body caused by skeletal muscle contraction.
  - h) Identify the components of the nervous system.
  - i) Identify the major blood vessels of the circulatory system.
  - j) Discuss the structures and mechanisms of systemic circulation.
  - k) Describe the major functions of the respiratory system.
- 2) Distinguish the systems of the body and the basic relationships among systems.

##### B. Exercise Physiology

- 1) Identify the molecular basis of muscle contraction.
  - a) Discuss the physiologic characteristics of skeletal muscle.
  - b) Identify the mechanisms of energy production for muscular contraction.
- 2) Evaluate the physiologic basis of exercise.
  - a) Analyze the physiologic changes resulting from exercise.
  - b) Analyze the circulatory adjustments to exercise.
  - c) Analyze respiratory adjustments to exercise.
  - d) Analyze the metabolic changes that occur due to exercise.
  - e) Analyze the neuro-musculoskeletal adjustments to exercise.
  - f) Identify the criteria used in physical fitness testing.
  - g) Discuss the health-related aspects of fitness.
  - h) Discuss the skill-related aspects of fitness.
- 3) Classify types of physical fitness tests.
- 4) List fundamental physical fitness training techniques.

##### C. Kinesiology and Biomechanics

- 1) Evaluate human movement.
  - a) Describe the relationships between the skeletal system and movement.
    - i) Define center of gravity, line of gravity, planes of motion, and axes of motion.
    - ii) Discuss the arrangement and components of simple machines found in the body.
  - b) Describe the relationships between the muscular system and movement.

- i) Explain the term aggregate muscle action.
  - ii) Compare the roles of prime movers, antagonists, and synergists.
- 2) Analyze the motion of the lower limbs, upper limbs, and spine.
- 3) Analyze the antigravity musculature.
- 4) Discuss the application of forces generated by the body.
- 5) Relate the function of receptors to movement.
- 6) Discuss reflexive movements.
- 7) Describe the relationships between the nervous system and movement.
  - a) Describe the involvement of the anatomical structures involved with volitional movement.
  - b) Contrast voluntary contraction and involuntary contraction.

D. Neurology

- 1) Discuss the organization and function of the nervous system.
  - a) Discuss the function of the parts of the central nervous system.
  - b) Discuss the function of the parts of the peripheral nervous system.
  - c) Identify the nerves that enervate the major muscles of the body.
  - d) Discuss sensory and motor neural pathways
  - e) Discuss the functions of the autonomic nervous system.
  - f) Discuss the functions of receptors and reflexes.
  - g) Discuss the functions of the senses.
- 2) Discuss neurological lesions and implications for motor functioning.
- 3) Analyze neurological deficits and resultant physiologic musculoskeletal impairments
- 4) Identify principles neurological evaluations.
  - a) Discuss principles and techniques of neurological examination
  - b) Identify reflex testing methods.
- 5) Identify perceptual motor and sensory integration assessment mechanisms.

E. Pathology

- 1) Discuss the structure and functional changes in tissue and organs of the body, which cause or are caused by disease processes and mechanisms.
  - a) Describe how the body adapts to pathogens.
  - b) Discuss the principles of immunological defense.
- 2) Identify the manifestations of disorders of the nervous, musculoskeletal, respiratory, cardiovascular, and endocrine systems.
  - a) Discuss disorders of development.

- b) Discuss disorders of the nervous system.
- c) Discuss nutritional diseases.
- d) Discuss disorders of the vascular and lymphatic circulatory systems.
- e) Discuss problems associated with deconditioning.
- f) Discuss problems associated with aging.

F. Growth and Development

- 1) Describe normal processes of growth and development across the life span.
  - a) Describe the normal processes of cognitive growth and development.
  - b) Identify processes of sensori-motor growth and development.
  - c) Identify processes of emotional and social growth and development.
- 2) Identify the age-specific abilities of an individual relevant to developmental status/functional capacity.
- 3) Identify the normal physical and mental abilities characteristic of any developmental age throughout the life cycle.
  - a) Relate the development of perceptual-motor ability, gross motor control, fine motor control, and body awareness.
  - c) Develop the individuals body awareness

**2. Behavioral Sciences**

A. General Psychology

- 1) Identify the principles of human behavior.
  - a) Discuss the effects of cognitive, perceptual and social development on human behavior.
  - b) Relate motivation and conflict to behavior.
  - c) Describe the processes of psychological adjustment.
- 2) Identify the physiologic considerations affecting behavioral processes.
  - a) Discuss information flow and processing in the nervous system.
  - b) Identify the major neurotransmitters and their modes of action.
  - c) Describe the effects of biogenic amines on behavior.
- 3) Discuss the pathologies of abnormal functioning
  - a) Discuss the conditions of psychopathology.
    - i) Describe the characteristics of developmental delay.
    - ii) Describe the characteristic of mental retardation.
  - b) Discuss psychiatric disorders.
    - i) Describe the characteristics of personality disorders
    - ii) Describe the characteristics of neuroses, and psychoses,
    - iii) Describe the characteristics of organic degenerative syndromes.
  - c) Discuss drug and alcohol dependency.
    - i) Describe the characteristics of dependence on opiate and synthetic analgesics, barbiturates, marijuana, cocaine and amphetamines.

- ii) Describe the characteristics of dependence on alcohol.

B. Behavioral Modification

- 1) Discuss operant and respondent behavior and positive and negative reinforcers related to behavior.
- 2) Identify various methods of systematic behavior modification techniques.
- 3) Discuss organic, environmental, and psychological factors relative to modification of behavior.
- 4) Utilize the stages of change model to facilitate change of health behaviors.

**3. Educational Foundations**

A. Learning Theories

- 1) Analyze how individuals learn.
  - a) Discuss the acquisition of affective, cognitive, and psychomotor behaviors.
  - b) Discuss the differences in learning styles between children and adults.

B. Teaching Strategies

- 1) Evaluate various teaching approaches.
  - a) Discuss strengths and weaknesses of the following teaching strategies:
    - i) Lecture
    - ii) Demonstration
    - iii) Laboratory
    - iv) Independent study
    - v) Practicum/internship
    - vi) Active problem solving.
  - b) Discuss changes in teaching strategies when taking into consideration cultural norms.
- 2) Evaluate the strengths and weaknesses of various educational technologies and assisted learning techniques for individual learning.

C. Assessment

- 1) Select and use appropriate instruments to measure the patient's attitudes, knowledge, psychosocial status, goals, quality of life, and satisfaction with treatment.
- 2) Select and use appropriate instruments to measure the patient's health, function, skill, exercise tolerance, fitness, and physiologic and perceptual response to postural change, activity, and exercise.
- 3) Measure the cognitive, psychomotor, and affective abilities of the learners.
- 4) Demonstrate the skill of implementing instructional methods.
- 5) Demonstrate the ability to teach individual, dual, and team physical activities.
- 6) Demonstrate the abilities to teach functional motor skills, games, and sports.

D. Evaluation of Learning Outcomes

- 1) Formulate a plan to evaluate learning.
- 2) Analyze the results of tests of students' accomplishments and make decisions regarding future learning activities.

**4. Clinical Foundations**

A. Evaluate the fitness abilities and deficits of the individual

- 1) Measure physical fitness including cardiovascular fitness, muscular strength, muscular endurance, and flexibility.
- 2) Measure the skill-related aspects of physical fitness including agility, balance, coordination, power, reaction time, and speed.

B. Determine the functional abilities of the individual

- 1) Evaluate the individual's mobility and locomotion skills, including ambulation and wheelchair management.
- 2) Identify the skills the individual will need for optimal living.
  - a) Describe treatment objectives for individuals with various pathologies, impairments, functional limitations, and disabilities.
  - b) Develop treatment objectives to meet the needs identified in the individual's evaluation.
- 3) Write attainable short-and long-range treatment goals based on evaluation and history.
  - a) Develop appropriate treatment programs for individuals with various diseases and disabilities.
  - b) Evaluate and document progress for short and long term goals.
- 4) Identify methods used in treating individuals who have impaired reflexive movements, basic locomotor skills, perceptual abilities, physical abilities, skilled movements, and/or psychosocial skills

C. Demonstrate the skill of implementing treatment methods

- 1) Demonstrate the ability to provide kinesiotherapy treatments for the physical, mental, emotional problems presented by the individual.
- 2) Describe and apply techniques of therapeutic exercise.
- 3) Demonstrate the use of passive, assistive, active, resistive, and reflexive exercise/activity.

- 4) Demonstrate concepts of perceptual-motor learning, including perception, gross motor control, fine motor control, body awareness, and relaxation.

D. Evaluation of Treatment Programs

- 1) Analyze the functional outcomes and effectiveness of treatment programs in light of stated objectives.
- 2) Modify treatment programs to meet the needs of the individual.

E. Equipment

- 1) List the equipment, adaptations, prosthetic and/or orthotic devices needed rehabilitation and functional living for individuals with various disabilities.
- 2) List the types of equipment needed for a basic Kinesiotherapy clinic.

F. Terminology

- 1) Understand appropriate medical, pharmacological, and disability-related terminology.
- 2) Demonstrate use of only approved medical abbreviations.

G. Document the functional abilities of the individual including:

- 1) Transfers, ambulation, stair climbing, recoveries from the floor and other physical activities.
- 2) Quality and quantity of physical activity of the individual.

**5. Administration**

A. Administrative Procedures

- 1) Discuss the history, philosophy, and principles of kinesiotherapy.
- 2) Understand the scope and standards of practice of kinesiotherapy.
- 3) Discuss the ethical considerations and responsibilities of the kinesiotherapist in health care.
- 4) Document the ability to work in a multidisciplinary setting to meet the needs of the individual.
  - a) Document the compliance/adherence of the individual to treatment programs and recommendations.
  - b) Document the patient's progress and performance over time.
  - c) Discuss the medical, legal, and economic considerations appropriate to



- kinesiotherapy.
- d) Maintain a safe work environment.
  - i) Recognize changes in the individual's condition and intervene appropriately.
  - ii) React quickly and prudently in emergency and/or life-threatening situations.

**B. Resource Management**

- 1) Discuss quality assurance as it relates to kinesiotherapy.
  - a) Analyze the significance of professional growth and development.
  - b) Discuss policies and procedures relevant to personnel management in kinesiotherapy.
- 2) Identify the factors involved in managing personnel in kinesiotherapy.
- 3) List the physical resources necessary to perform kinesiotherapy.

**6. Emergency Preparedness & Response Competencies**

**A. Site Safety**

- 1) Demonstrate knowledge of universal precautions and infection control.
- 2) Demonstrate knowledge of hazardous waste procedures.
- 3) Safely transfer and/or transport individuals in the event of an evacuation

**B. Emergency Procedures**

- 1) Recognize and record vital signs.
- 2) Apply correct techniques of CPR.
- 3) Respond quickly and accurately in emergency situations.

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