



TEST CONTENT OUTLINE

Orthotic Simulation Exam

The Orthotic Simulation Exam Test Content Outline below is broken down by domain; each domain section indicates the percentage of emphasis that the elements of practice in that domain receives on the exams. For each Practice Domain listed on the Test Content Outline, you should plan on familiarizing yourself with clinical, technical or general practice information related to that domain.

Practice Domains

DOMAIN 1

Patient Assessment — 10% - 20%

- Review patient's prescription/referral
- Take a comprehensive patient history, including demographic characteristics, family dynamics, previous use of an orthosis, diagnosis, work history, avocational activities, signs and symptoms, medical history (including allergies to materials, current medications), reimbursement status, patient expectations, patient compliance with ancillary care and results of diagnostic evaluations
- Perform a diagnosis-specific functional clinical and cognitive ability examination that includes manual muscle testing, gait analysis, and evaluation of sensory function, range of motion, joint stability and skin integrity
- Consult with other healthcare providers and caregivers, when appropriate, about patient's condition in order to formulate a treatment plan
- Verify patient care by documenting history, ongoing care and follow-up, using established record-keeping techniques
- Refer patient, if appropriate, to other healthcare providers for intervention beyond orthotic scope of practice

DOMAIN 2

Formulation of the Treatment Plan — 35% - 45%

- Evaluate the findings to determine an orthotic treatment plan
- Formulate treatment goals and expected orthotic outcomes to reduce pain, increase comfort, provide stability, prevent deformity, address aesthetic factors and/or promote healing to enhance function and independence
- Consult with physician/referral source/appropriately licensed healthcare provider to modify, if necessary, the original prescription and/or treatment plan
- Identify design, materials and components to support treatment plan
- Develop a treatment plan based on patient needs, including patient education and follow-up
- Communicate to patient and/or caregiver about the recommended treatment plan and any optional plans, including disclosure of potential risks/benefits in orthotic care
- Document treatment plan using established record-keeping techniques
- Ensure that patient or responsible parties are informed of their financial responsibilities (for example, insurance verification/authorization, deductibles, co-pays) as they pertain to proposed treatment plan

DOMAIN 3

Implementation of the Treatment Plan — 15% - 25%

- Inform patient, family and/or caregiver of the orthotic procedure, possible risks and time involved in the procedure
- Provide patient with preparatory care for orthotic treatment (e.g., diagnostic splint, compression garment)
- Select appropriate materials/techniques in order to obtain a patient model/image
- Prepare patient for procedure required to initiate treatment plan (e.g., measure, take impression, delineate, scan, digitize)
- Perform procedure (e.g., measure, take impression, delineate, scan, digitize)
- Refer to manufacturer's specifications and other technical resources regarding components/materials
- Select appropriate materials and components for orthosis based on patient criteria to ensure optimum strength, durability and function (e.g., ankle or knee joints, feet, knee units, lamination layups)
- Prepare delineation/impression/template for modification/fabrication (e.g., prepare impression/reverse delineation, digitize)
- Rectify and prepare patient model/image for fabrication
- Fabricate/assemble orthosis in order to prepare for initial or diagnostic fitting and/or delivery
- Assess device for structural safety and ensure that manufacturers' guidelines have been followed prior to patient fitting/delivery (e.g., torque values, patient weight limits)
- Assess/align orthosis for accuracy in sagittal, transverse and coronal planes in order to provide maximum function/comfort
- Ensure that materials, design and components are provided as specified in the treatment plan
- Complete fabrication process after achieving optimal fit and function of orthosis
- Educate patient and/or caregiver about the use and maintenance of the orthosis (e.g., wearing schedules, other instructions)
- Re-assess orthosis for structural safety prior to patient delivery
- Document treatment using established record-keeping techniques to verify implementation of treatment plan
- Refer patient to appropriate healthcare providers (e.g., therapists) for necessary ancillary care

DOMAIN 4

Follow-up Treatment Plan — 20% - 30%

- Obtain feedback from patient and/or caregiver to evaluate outcome (e.g., wear schedule/tolerance, comfort, perceived benefits, perceived detriments, ability to don and doff, proper usage and function, overall patient satisfaction)
- Assess patient's function and note any changes
- Assess patient's skin condition (e.g., integrity, color, temperature and volume) and note any changes
- Assess patient's general health, height, weight and note any changes
- Assess patient's psychosocial status (e.g., family status, job or caregiver) and note any changes
- Assess fit of orthosis with regard to strategic contact (e.g., multiple force systems, total contact) to determine need for changes relative to initial treatment goals
- Assess fit of orthosis with regard to anatomical relationships to orthosis (e.g., trimlines, static/dynamic alignment) to determine need for changes relative to initial treatment goals
- Assess patient's achievement of planned treatment outcomes
- Formulate plan to modify orthosis based on assessment of outcomes and inform patient and/or caregiver of plan to modify orthosis as necessary

- Make or supervise modifications to orthosis (e.g., relieve pressure, change range of motion, change alignment, change components, add pressure-sensitive pad)
- Assess modified device for structural safety
- Evaluate results of modifications to orthosis, including static and dynamic assessment
- Reassess patient knowledge of goals and objectives to ensure proper use of orthosis relative to modifications
- Document all findings and actions and communicate with physicians, referral sources and appropriately licensed healthcare providers to ensure patient status is updated
- Develop long-term follow-up plan