

## 2023 NBCOT Orthopaedic Technologist Certified (OTC) Examination Content Outline

Major Domains	% Weight
1. Patient Assessment and Management	30%
2. Office and Clinic Management	10%
3. Casting, Splinting, and Orthopaedic Appliances	40%
4. Clinic and Hospital Surgical Procedures	20%

### Domain 1: Patient Assessment and Management

- A. Demonstrate the ability to obtain complete history of the patient's complaint(s) and condition(s)
  - 1. Interviewing techniques
  - 2. Documentation procedures
  - 3. Risk factors
- B. Conduct physical examination of the patient
  - 1. Vital signs
  - 2. Specialized orthopaedic testing/maneuvers
  - 3. Neurovascular examination
  - 4. Wound and skin assessment
- C. Describe the types of radiographic studies and communicate findings
  - 1. Normal vs abnormal presentations
  - 2. Radiographic views
  - 3. Specialized radiographic tests
- D. Demonstrate the ability to educate patients regarding physician protocols, procedures, and devices
- E. Utilize knowledge of anatomy and physiology
- F. Utilize knowledge of medical terminology
- G. Recognize common orthopaedic conditions and injuries
  - 1. Congenital
  - 2. Acute
  - 3. Chronic
- H. Identify and respond to patient-related emergency situations

### Domain 2: Office and Clinic Management

- A. Utilize the foundations of inventory management
  - 1. Availability of equipment and supplies
  - 2. Maintenance of equipment
- B. Demonstrate established best practices for maintaining patient privacy and confidentiality

- C. Demonstrate established best practices for infection control, sterilization techniques, and following universal precautions
- D. Demonstrate compliance with current regulatory guidelines for safety and hazard management

### **Domain 3: Casting, Splinting, and Orthopaedic Appliances**

- A. Differentiate among casting/splinting materials
- B. Apply upper extremity cast/splint using accepted casting/splinting practices and techniques
- C. Apply lower extremity cast/splint using accepted casting/splinting practices and techniques
- D. Apply specialty cast/splint using accepted casting/splinting practices and techniques
- E. Employ methods for removal of cast/splint using accepted practices and techniques
- F. Employ methods for altering, modifying, or adjusting cast/splint using accepted practices and techniques
- G. Apply and adjust Orthopaedic durable medical equipment (DMEs) for proper fit and placement
- H. Provide patient education regarding casting, splinting, and Orthopaedic appliances
  - 1. Skin and/or wound care
  - 2. Application and removal
- I. Recognize and respond to orthopaedic complications

### **Domain 4: Clinic and Hospital Surgical Procedures**

- A. Demonstrate knowledge of common orthopedic surgical procedures
  - 1. Aseptic technique
  - 2. Types of procedures
  - 3. Equipment and instruments
- B. Demonstrate the ability to position, prep and drape patient using accepted practices and techniques
- C. Manage post-operative patient
  - 1. Dressings and wound care
  - 2. Staple, pin, and suture removal
  - 3. Complications
- D. Assist the surgeon physician using accepted surgical practices and techniques
- E. Provide patient education regarding pre-and post-operative care
- F. Demonstrate the ability to draw and prepare requested injections
  - 1. Measurements
  - 2. Common pharmaceuticals
- G. Employ methods for collecting and preparing specimens
- H. Demonstrate knowledge of traction and accepted practices and techniques
  - 1. Skeletal
  - 2. Skin
  - 3. Patient education