

ADVANCED CLINICAL COMPETENCIES: UPPER EXTREMITY CASTING TECHNIQUES IN ORTHOPEDIC PRACTICE

This workshop is designed for athletic trainers operating in high-volume orthopedic environments. Participants will transition from foundational knowledge to clinical proficiency in essential technical fracture immobilization.

The first segment of the course focuses on the application of upper extremity fiberglass casts, fiberglass splints, and plaster splints. Emphasis is placed on identifying critical anatomical landmarks to ensure patient safety, masterfully managing padding to prevent pressure-related complications, and refining molding techniques for optimal stabilization.

By the end of this session, attendees will demonstrate the hands-on competency required to enhance clinic efficiency and elevate the standard of patient care.

LEARNING OBJECTIVES

List the essential anatomical landmarks and physiologic considerations when applying upper extremity casts and splints without compromising neurovascular integrity.

Correctly perform the sequential steps of a standard orthopedic casting procedure, including proper padding distribution and molding techniques, to ensure optimal fracture stabilization and patient comfort.

Evaluate potential clinical complications associated with improper casting (e.g., compartment syndrome) and formulate immediate corrective actions based on evidence-based orthopedic standards.

OCTOBER 6TH 2026
EMORY MUSKULOSKELETAL
INSITUTE
5:30 - 7:00 PM

ELIGABLE FOR 2 CAT A CEU
EMORY IS A BOC APPROVED PROVIDER

CLINICAL COMPETENCY: UPPER EXTREMITY CASTING CHECK-OFF CASTING

NAME _____ DATE _____

EVALUATOR _____ PASS/FAIL _____

	CRITERIA	MET/NOT MET
1	Preparation: Selects correct material size and checks skin integrity/neurovascular status.	
2	Padding: Applies stockinette and webril smoothly, ensuring 50% overlap and extra padding over bony prominences.	
3	Application: Maintains joint in neutral/functional position while applying fiberglass with consistent tension.	
4	Finishing: Folds over edges for a smooth finish and performs "mold" to prevent pressure points.	
5	Post-Care: Verifies distal capillary refill and provides patient education on warning signs (e.g., numbness, color change).	

EVALUATOR FEEDBACK:

EVALUATOR NAME

DATE

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Training Topic:

Date & Time:

Sign-In Sheet

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