

bebionic Hand Occupational Therapy Training  
Presented by: OTTOBOCK

**COURSE DESCRIPTION:**

This is an introductory level course designed for Occupational Therapists, Occupational Therapy Assistants, and other rehabilitative healthcare professionals to gain an understanding of the bebionic multiarticulating prosthetic hand. Initially, myoelectric prosthetic hands were designed with a single degree of freedom offering open and close motions in tripod grip. Recent advancements have resulted in more anatomical and functional designs with multiarticulating fingers and a thumb that can be moved in various planes. This allows for more grasp patterns to be utilized, such as lateral/key and power grip among others. Additional grip patterns allow for versatility in task completion, but also require increased control and proper training for optimal outcomes.

This course focuses on training methods specific to the bebionic multiarticulating hand following an established three-tiered training protocol, including controls training, repetitive drills, and ADL training. Features and functions of the hand will be discussed, including the 14 available grip patterns and hand positions, hand operation, multi-articulating fingers, and proportional control. An overview of switching mechanisms to access various grip patterns in the hand will be provided, as well as clinical application for each pattern. ADL training is outlined for the therapist to help patients achieve successful integration of the hand into their daily lives. Recommended outcome measures to assess performance levels will also be reviewed.

**OBJECTIVES:** Upon course completion, participants will demonstrate ability to:

- Identify two advantages of a multiarticulating hand versus a single grip hand.
- List three evaluation criteria used in determining an appropriate bebionic candidate.
- Summarize the two main thumb positions and three corresponding grip patterns available.
- Define three switching methods that can be used to change grip patterns in the bebionic hand.
- Outline the three-tiered training protocol and its application with multiarticulating hands.
- Identify two appropriate outcome measures used to monitor progress and enhance training results.

**DURATION: 1.5 Hours (.15 AOTA CEUs)**

1. Introduction (10 min)
  - A. Single Grip vs Multiarticulating Hands
  - B. Clinical Application
  - C. Patient Benefits
2. bebionic Hand (35 min)
  - A. Features & Functions
  - B. Grip Patterns
  - C. Switching Mechanisms
  - D. Operational Modes
4. Prosthetic Training: 3-Tiered Therapy Protocol (35 min)
  - A. Physical Training
  - B. Controls Training
  - C. Repetitive Drills
  - D. ADL Training
  - E. Outcome Measures & Resources
5. Resources (10 min)

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**Target Audience:** Clinicians (OTs, COTAs, rehabilitation professionals)

**Level:** Introductory; no pre-requisites required

**Instructional Methods:** Online or in-person classroom training versions are offered

**Presenter Info:** Please see next page

**Credits:** 0.15 AOTA CEUs

**Registration Information:** Online course registration can be completed at [https://shop.ottobock.us/Online-Training#bebionic\\_OT](https://shop.ottobock.us/Online-Training#bebionic_OT) . Live classroom courses are booked by request through [us.education@ottobock.com](mailto:us.education@ottobock.com) and registration will be completed through a provided Eventbrite link. Special needs requests will be accommodated and should be directed to [us.education@ottobock.com](mailto:us.education@ottobock.com).

**Course Completion Requirements:** Quiz and survey completion are required.

**Cancellations & Refunds:**

If you are signed up for a classroom (in-person) version of this course and would like to cancel your registration, please contact the Ottobock Education Team at least 1 week before the course date. To contact the Ottobock Education Team, please either email [us.education@ottobock.com](mailto:us.education@ottobock.com) or call 800-328-4058 and ask to speak with an Education Coordinator. If you are taking the online version of this course, found at [https://shop.ottobock.us/Online-Training#bebionic\\_OT](https://shop.ottobock.us/Online-Training#bebionic_OT) , no prior cancellation is necessary. There is no registration fee for either the live or online version of this course, therefore no refunds are required.

**Questions:**

For questions, please contact the Ottobock Education Team at [us.education@ottobock.com](mailto:us.education@ottobock.com) or call 800-328-4058 and ask to speak with an Education Facilitation Specialist.

**Provider Information:**

Ottobock uses innovative technology, superior service, and world-class education to help people with physical mobility challenges. Established in 1919 in Germany, Ottobock opened its doors in the U.S. in 1958 and in Canada in 1978. Currently in its third generation as a privately held company, Ottobock offers products and services to help people maintain or regain their freedom of movement.

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**Erica Swanson, CP /MOT, OTR/L**, received her master’s degree in occupational therapy from the University of North Dakota in 2004. Occupational therapy rotations specialized in orthopedic and neurological disorders at Northern California Rehabilitation Hospital in Redding, CA, and in mental health at ELMHC, affiliate of the Dept. of Mental Health & Harvard University, Boston, MA. She then obtained her certification in prosthetics from California State University, Dominguez Hills in 2005.

Erica completed her prosthetic residency in Colorado Springs at Abilities Unlimited. She worked with a diverse patient population, including pediatrics, adult, and geriatrics. Intermittent experience with athletes was also obtained while working with participants at the U.S. Olympic Training Center. After completing her ABC certification, she then spent two years with Hanger Clinic in Arizona where she focused on lower extremity prosthetics and developed a support group for individuals with amputation. Throughout this time, Erica also worked as an occupational therapist in home health, pediatrics, and adult outpatient settings. In 2008 she moved to Minnesota where she was employed with Fairview Hospital O&P for two years before making the career change into education.

In 2011 Erica joined Ottobock as a lower extremity clinical specialist and gained extensive experience with microprocessor-controlled knees and feet. In 2016 she cross trained into upper limb and is now working as a Senior Clinical Specialist on the Professional & Clinical Services team. She is now based out of North Dakota and enjoys the balance of working with practitioners and patients during fittings, providing occupational therapy trainings during the rehabilitation process, and teaching courses to educate healthcare professionals on advanced prosthetic technology.

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