

**TORRENTIA**

**Orthobiological Hacker<sup>™</sup>  
(OBH) Certification**



<https://torrentia.com>

# Orthobiological Hacker™ (OBH) Certification

## Executive Summary / TL;DR

The Orthobiological Hacker™ Certification by Torrentia is a **33-hour** CE-accredited, hands-on training designed for clinicians who want to reclaim mastery, deliver better outcomes, and integrate regenerative tools like lasers, ARPwave, shockwave, and neuromodulation into real clinical practice. This isn't a checkbox CEU—it's a full system that teaches practical dosing, patient-centered application, and clinical-business integration. Created by Drs. Ray Butts and Ben England, OBH is the flagship course in Torrentia's mission to transform rehab medicine.

*It's made for clinicians who are ready to lead the future, not follow the past.*

- **Part One:** Pick a location (19 CE Hours)
- **Part Two:** Online, self-paced + replay of part one - starting August 1st (14 CE Online)

Register early for the best deal: <https://torrentia.com/>

*Further details upon registration*

Prices are ALL INCLUSIVE of in-person conference, replay, and self-paced, online modules.

- *Private events are not available; however, we are offering semi-private events (**Extremely Limited**) - call for details*
- *Team pricing discounts available - call for details*
- *260-918-4986*



*CEU-accredited training for clinicians who treat complex cases, integrate regenerative tools, and lead with clinical precision.*

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## Why Torrentia

Torrentia is more than an education platform—it's a call to arms. Built by clinicians, for clinicians, Torrentia addresses the real-world burnout, stagnation, and underutilization plaguing modern rehab medicine. We equip providers with the tools, science, and systems to lead—not just survive. This brand was born to challenge the outdated education models and reclaim the clinician's role as a leader in outcomes.

**Mission:** To reinvigorate healthcare professionals and ignite a new standard of care that transforms patient lives.

**Vision:** To revolutionize patient care and deploy the world's most integrated rehab clinicians.

## OBH Hybrid Course Overview

The Orthobiological Hacker™ Certification is an intensive, two-day, immersive, as well as a self-paced online program that trains clinicians in:

- Photobiomodulation (Class 3-4 lasers)
- Shockwave therapy (radial & focused)
- Electric modalities (multi-waveform NMES, electric dry needling, non-invasive brain stimulation)
- Manual Therapy (Tissue-specific loading)
- Functional Medicine (online self-paced)

It blends:

- Didactic learning
- Interactive dosing labs
- Hands-on labs
- Business integration and leadership training

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## OBH In Person/Conference Instructors

### **Dr. Benjamin England DPT, FAAMOPT, CSCS**

Ben is a nationally recognized educator and clinician known for bridging evidence with execution. With over a decade of teaching experience and a passion for unlocking real-world clinical outcomes, he specializes in practical application of regenerative tools across diverse patient populations. As co-creator of OBH, Ben brings precision, clarity, and an unapologetic focus on what actually works.

Certified Strength and Conditioning Coach & Former Competitive Bodybuilder

### **Raymond Butts DPT, PhD, MS, FAAOMPT**

Ray is a neuroscientist, physical therapist, and systems thinker who has taught more than 600 courses and published over 30 peer-reviewed studies. He's best known for his groundbreaking work integrating non-invasive neuromodulation and regenerative rehab. With a rare blend of academic depth and clinical pragmatism, Ray is the architect behind Torrentia's rigorous, rebel-hearted framework.

Former Army Master Fitness Trainer, Former International Rower, & Former Competitive Triathlete

## For practitioners interested in expanding their scope of care -

Licensed professionals such as DPTs, DCs, ATCs, OTs, MDs, DOs, PAs, and NPs who:

- Are burned out by volume-driven models
- Ready to regain their passion for patients and results
- Want real systems, not more theory
- Need tools that actually work for complex cases
- Value autonomy, mastery, and outcomes
- Want to return from burnout or a life pause.
- Want respect, better tools, and structured re-entry.
- Who are early-career and hungry and *want to lead now, not wait a decade.*

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## Learning Objectives

By the end of this course, you will:

- Know when and how to dose regenerative modalities
- Apply photobiomodulation, shockwave, and electric dry needling with precision
- Justify your treatment protocols with evidence
- Build real ROI strategies for clinic-based and private-pay practices
- Articulate rehab strategies to peers, patients, and referral sources

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## Schedule Summary

### Saturday

- 6.25 hours didactic
- 5 hours of lab

### Sunday

- 3.75 hours didactic
- 4 hours of lab

The full schedule includes foundations, application, dosing labs, business strategy, and practical evaluations.

## Evaluation & Certification

- 500-point system (oral-practical + grand rounds)
- Pass => 350/500
- CE-accredited with integrated clinical + business application
- Certification is delivered upon completion of the digital course

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## What Sets OBH Apart

### Torrentia OBH

Systems-based

Outcome-first

Hands-on labs

Clinical + biz

Real mentorship

### Traditional CEUs

Technique-based

Compliance-first

Lecture-only

Clinical only

Forum access

## What You Leave With

- How can these modalities be used
- How can these modalities be monetized
- Certification that opens doors
- Mastery of regenerative tools
- A system that integrates into your caseload
- Confidence to lead, not guess
- Community of like-minded peers

*This is not just a CEU. It's a transformation system for the clinicians who know there's more—and are ready to prove it.*

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## More about these modalities:

### Photobiomodulation (Class 3–4 Lasers)

Uses specific wavelengths of light to stimulate cellular mitochondria, triggering cascades that promote **tissue repair, inflammation reduction, and pain modulation**. Proper dosing is essential—underdose yields no effect, overdose may cause oxidative stress.

### Shockwave therapy (radial & focused)

Delivers mechanical waves into tissue to stimulate regeneration, reduce chronic inflammation, and activate cellular repair pathways. Radial waves disperse energy broadly, while focused waves penetrate deeper. Both require precise dosing to avoid tissue overload.

### Electric modalities (multi-waveform NMES, electric dry needling, non-invasive brain stimulation)

A modern, integrated approach combining several high-impact technologies:

Multi-Waveform NMES: Facilitates neuromuscular re-education and pain control using layered electric signals tailored to the stage of healing.

Electric Dry Needling: Amplifies the effects of traditional dry needling by adding current to target central and peripheral sensitization, reduce pain, and promote repair.

Non-Invasive Brain Stimulation: Modulates cortical activity to rebalance the nervous system, enhance motor learning, neuroplasticity, and pain inhibition—without invasive techniques.

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## Syllabus

### Course Hours:

10 Didactic

9 Hours interactive lab

**Course Name:** Orthobiological Hacker™ (OBH): Applications of Orthobiological Hacking for the Medical Professional

### Content Creators:

Dr. Ben England DPT, FAAOMPT

Dr. Raymond Butts DPT, PhD, MS, FAAOMPT

### Instructor Names:

Dr. Ben England DPT, FAAOMPT

Dr. Raymond Butts DPT, PhD, MS, FAAOMPT

### Instructional Format:

Lecture, Lab demonstration, Hands-on lab practice sessions (with equipment), Grand rounds, Oral-practical Check-off completion

### Prerequisites:

None

### Eligible Professions:

MD, DO, DPT, DC, ATC, OT, NP, PA

### Course Description:

The purpose of this course is to provide an evidence-based framework for how to evaluate and successfully manage patients that have undergone regenerative medicine procedures. In addition to reviewing the physiologic construct of typical regenerative medicine procedures (e.g., platelet rich and platelet poor plasma, adipose derived stem cell injections, bone marrow aspirate concentrate injections, and exosomes), the course will make recommendations based on clinical experience, patient preference, and the latest research for using graded exercise, manual therapy, and evidence-based technologies to optimize each phase of tissue healing.



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The course will specifically provide didactic and hands-on training for photobiomodulation (i.e., Class 3–4 laser), shockwave (i.e., radial and focused), and electric modalities (i.e., multi-waveform NMES, electric dry needling, and noninvasive brain stimulation). While the use of these technologies can be effectively applied to patients with neuromusculoskeletal conditions, the focus of this course will be on how to use exercise, manual therapy, and evidence-based technologies to augment regenerative medicine procedures. Participants should expect high-level didactic coursework and applicable hands-on training necessary to incorporate class 3–4 laser, shockwave, and electric modalities into clinical practice to achieve optimal patient-centered outcomes.

Moreover, students will learn cash and insurance-based billing strategies for how to maximize profits related to evidence-based technologies.

- Photobiomodulation is a tool that helps balance cellular mitochondria, thereby activating a number of cascades responsible for cellular proliferation, differentiation, migration, homeostasis, and repair. When photobiomodulation is improperly dosed, the treatment often fails to create physiologic change and/or drives the creation of dangerous reactive oxygen species, resulting in cellular damage and apoptosis. This class will review the physiologic mechanism behind photobiomodulation and determine how and when to administer it for various tissue types, neuromusculoskeletal disorders, and stages of tissue healing.
- Shockwave drives waves of energy in a manner that is either focused or dispersed throughout various physiologic tissue-types so as to mechanically stimulate cells, and thereby, initiate a number of cellular cascades responsible for proliferation, differentiation, migration, homeostasis, and repair. When improperly dosed, shockwave may not drive enough energy to create a physiologic change. In contrast, excessive shockwave stimulation has the potential to drive inflammation, tissue damage, and cell death. The purpose of this class is to review the physiologic mechanism behind shockwave technology and determine how and when to administer it for various tissue types, neuromusculoskeletal disorders, and stages of tissue healing.
- Rehabilitation professionals have traditionally incorporated electric modalities such as transcutaneous electric stimulation, interferential current, neuromuscular electric stimulation, Russian stimulation, and micro-current in clinical practice so as to reduce pain, facilitate muscle contraction, and drive tissue repair. However, this class will consider multi-waveform technology to improve the effectiveness and efficiency of functional movement and exercise. In addition, the class will explore the physiologic effects of electric dry needling to reduce peripheral, central, and affective pain while driving a more robust reparative response. Finally, the course will explore the use of noninvasive brain stimulation to rebalance

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excitation and inhibition in the central nervous system, thereby facilitating plastic changes associated with pain reduction and motor learning.

## Course Schedule:

\*Approximately a 16:1 Student-to-Instructor Ratio

### Saturday (6.25 Hours Didactic, 5 Hours Hands-on Lab)

8:00AM-8:30AM: Orthobiological Hacker Introduction

8:30AM-9:30AM: Foundations of Regenerative Medicine - Lecture

9:30AM-11:00AM: Foundations of Photobiomodulation - Lecture

11:00AM-12:00PM: Applications of Photobiomodulation - Interactive Dosing

Lab 12:00PM-1:00PM: Applications of Photobiomodulation - Hands-on Lab

1:00PM-2:00PM Lunch and lecture: Business, Marketing, and Leadership Strategies for the Orthobiological Hacker

2:00PM-2:45PM: Foundations of Electric Dry Needling - Interactive

Lecture 2:45PM-3:45PM: Applications of Electric Dry Needling - Hands-on Lab

3:45PM-4:30PM: Foundations of Multi-waveform Technology - Interactive

Lecture 4:30PM-5:30PM: Application of Multi-waveform Technology - Hands-on

Lab 5:30PM-6:15PM: Foundation of Non-invasive Brain Stimulation - Interactive

Lecture 6:15PM-7:15PM: Application of Non-invasive Brain Stimulation - Hands-on

Lab 7:15PM: Closing Remarks

### Sunday (3.75 Hours Didactic, 4 Hours Hands-on Lab)

8:00AM-9:30AM: Foundations of Shockwave - Lecture

9:30AM-10:00AM: Applications of Shockwave - Interactive Dosing Lab

10:00AM-11:00AM: Applications of Shockwave - Hands-on Practical

11:00AM-12:30PM: Applications of Regenerative Medicine Rehabilitation -

Lecture 12:30PM-2:00PM: Application of Regenerative Medicine Rehabilitation -

Practical 2:00PM-3:15: Presentation of Regenerative Medicine Practical with

Feedback 3:15-3:45: Closing Remarks and Questions and Answers

## Course Objectives:

At the completion of this course, participants will be able to complete the following objectives per the oral-practical check-off sheet and groups presentation:

1. Students will be able to provide 3 indications and 3 contraindications for using class 3-4 laser, shockwave, multi-waveform NMES, electric dry needling, and noninvasive brain stimulation
2. Given 2 patient scenarios, Students will be able to verbalize the basic physiologic rationale for class 3-4 laser, shockwave, multi-waveform NMES,

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- electric dry needling, and noninvasive brain stimulation.
3. Given 2 regenerative medicine patient scenarios, students will demonstrate how to properly dose and provide and safely treat using class 3-4 laser, shockwave, multi-waveform NMES, electric dry needling, and noninvasive brain stimulation.
  4. Given a mock patient treatment scenario, students will be able to describe the basic preparation and 2 advantages/disadvantages to PRP, PPP, BMAC, fat stem cells, and exosomes.
  5. Given 2 example patients that have received regenerative medicine procedures, students will be able to correctly recommend and justify 3 examples of appropriate exercise and manual therapy techniques for each stage of tissue healing.
  6. Given 2 example patients that have received regenerative medicine procedures, students will be able to recommend and justify 2 appropriate modalities for each stage of tissue healing.
  7. Students will be able to verbalize 3 major cellular signaling pathways that are responsible for stem cell proliferation, differentiation, and migration.
  8. Given 3 example patients that have received regenerative medicine procedures, students will be able to recommend an appropriate rehab strategy and timeline as if speaking to a referral source.
  9. Given an example patient scenario, students will be able to cite one study to describe how photobiomodulation, shockwave, multi-waveform NMES, and electric dry needling reduce peripheral pain.
  10. Given an example patient scenario, students will be able to cite one study to describe how photobiomodulation, shockwave, multi-waveform NMES, and electric dry needling reduce central-mediated pain.
  11. Describe 3 major waveforms used to create ARPwave and discuss 2 advantages of each.
  12. Given 2 patient scenarios, demonstrate how to properly augment exercise with ARPwave based on the stage of tissue healing.
  13. Given a patient scenario, students will demonstrate how to properly dose a dry needling treatment with manual and electric stimulation.
  14. Students will be able to answer the following question: How is acupuncture and dry needling different? How are they the same?
  15. Students will be able to demonstrate how to find “hot spots” for proper anode/cathode placement in a mock patient scenario.
  16. Students will be able to explain the mechanism and one primary physiologic difference associated with active trigger points, latent trigger point, and embryonic trigger points.
  17. Students will verbalize how to successfully integrate and bill for regenerative medicine rehabilitation according to both a cash and insurance-based model.

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## **Evaluation:**

Coursework will be evaluated via an oral-practical exam and one grand rounds oral presentation on a patient-case scenario. The oral-practical exam will cover key components of didactic lectures. In addition, it will test students' ability to safely apply and integrate didactic knowledge into patient scenarios using photobiomodulation, shockwave, and electric modalities (i.e., multi-wave form NMES, electric dry needling, and non-invasive brain stimulation). Students will be evaluated according to the following point breakdown:

Oral Practical Exam = 320 Points

Grand Rounds Presentation = 180

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Total Points 500

A pass/fail grade will be assigned based on the scale below:

Pass = >350/500

Fail = <350/500

## **Electronic Equipment:**

No recording devices of any kind or cameras (including telephone cameras) can be used in the classroom during the didactic or hands-on portion of the course with permission from the instructors. To maintain intellectual property, phone and/or video may not be used to record lecture and lab presentations.

## **Students with Disabilities:**

Special accommodation will be made whenever possible to accommodate students with disabilities. When possible, students with a documented disability should contact instructors prior to the course so that appropriate arrangements can be made.