

# MOBILE BIOREFINERY

- 100% Online, Self-directed
- High demand for certified professionals
- 8 Games
- 4 Quizzes
- Interactive and Gamified Elements to Test Comprehension

**Instructor: Blake Simmons | Kieran Mitchell  
David Connolly**

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Certificate of Completion from



## OVERVIEW: Mobile Biorefinery

In this course, you will learn the foundational concepts and business drivers related to mobile biorefinery technology and how to operate it safely and optimally. By successfully completing this course, you will be ready to pursue employment as an operator of the Caribou Biofuels Inclined Rotary Gasifier (IRG) or another similar mobile biorefinery technology.





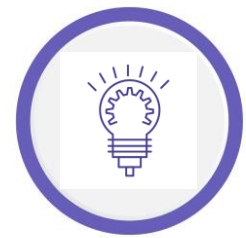
### HIGH DEMAND

The supply vs demand gap study for biorefineries in the US underscores the burgeoning market potential as demand surges for sustainable, bio-based products, while the supply is striving to keep pace with evolving technological and regulatory landscapes.



### HUGE SUPPLY GAP

The demand for biorefinery professionals in the US is experiencing robust growth, creating more jobs.



### BRIGHT FUTURE

The global biorefinery market size was valued at \$41.88 billion in 2021 and is projected to grow from \$45.03 billion in 2022 to \$80.26 billion by 2029, increasing job prospects.

## BENEFITS OF THIS PROGRAM

- ✓ This course, designed to illuminate the cutting-edge realm of sustainable bioconversion, unveils the remarkable benefits of mobile biorefineries, where portability meets innovation, enabling on-the-go conversion of diverse biomass sources into valuable bio-based products.
- ✓ Explore efficient resource utilization, reduced carbon footprint, and decentralized production, while gaining practical skills to drive eco-friendly solutions across industries.

## WHO IS THIS PROGRAM FOR?

- ✓ If you are an individual seeking employment or to enhance your knowledge, this is a great opportunity for you to learn about mobile biorefinery technology and build a rewarding, future-proof, and meaningful career.
- ✓ Regardless of your background, this online certification course in biorefinery gives you introductory knowledge on the concepts of biorefineries.

## HOW WILL YOU LEARN?



- ✓ Study at a time and speed that suits you best.
- ✓ Utilize a desktop, laptop, or mobile device to access online learning.
- ✓ If internet access is unavailable, utilize the iZen-LEAP® box for course access on your computer or mobile device.
- ✓ If you lack access to a computer or mobile device, connect the iZen-LEAP® box to a TV or monitor and start learning.

## PREREQUISITES & COMPLEMENTARY COURSES:

- ✓ While no prerequisites are required for taking this course, you may find it beneficial to refer to Introduction to Bioenergy for a better understanding of the bioenergy landscape and related technology.

## WHAT WILL YOU LEARN?

### MODULE - 1: Introduction to Gasification

- ✓ Course Outline & Objectives
- ✓ Introduction to Gasification

### MODULE - 2: Introduction to Mobile Biorefinery Technology

- ✓ Introduction to Mobile Biorefinery Technology

### MODULE - 3: Technology Applications & Real-World Impact

- ✓ Technology Applications & Real-World Impact

### MODULE - 4: Operator's guide.

- ✓ Operator's guide.

## WHO WILL YOU LEARN FROM?

## PROGRAM FACULTY



**Blake Simmons, CTO**



**Kieran Mitchell, CEO**



**David Connolly**

This course is designed by the Caribou Biofuels, Inc. team: Blake Simmons, CTO; Kieran Mitchell, CEO; and David Connolly; Lead Mechanical Engineer. Caribou Biofuels is an innovative waste-to-energy startup based in California and New York that's developing an innovative gasification technology that can convert various types of waste streams into clean, carbon neutral bioenergy.

- Blake Simmons LinkedIn profile:  
<https://www.linkedin.com/in/blake-simmons-18781b7>
- Kieran Mitchell LinkedIn profile:  
<https://www.linkedin.com/in/kieran-mitchell-79832118>
- David Connolly LinkedIn profile:  
<https://www.linkedin.com/in/david-connolly-nuig>
- Caribou Biofuels company website:  
<https://cariboubiofuels.com/>

## WHAT IS THE DURATION OF THE PROGRAM?

- ✓ 1 to 2 hours.
- ✓ Rolling enrolment allows you to start any time.
- ✓ The course duration can be aligned to your schedule and requirements.

## ABOUT iZen



iZen is a Talent Empowerment company, offering end-to-end solutions for skill development and employability, leveraging the power of AI and other digital technologies. The company was founded in Silicon Valley, California with a global vision to incubate innovation and to provide a platform that gives access to knowledge, skills, and advisory to empower the next generation workforce and students. iZen brings you internationally recognized standard programs, to set you apart and to future-proof your career.

Besides teaching technical skills, iZen also offers courses on “soft skills” that can help you succeed in the workplace. To learn more about how you can support the principles of diversity, equity, and inclusion wherever you work, we encourage you to check out **Introduction to Diversity, Equity & Inclusion**.



## HOW DO I ENROLL IN THE COURSE?

<https://academy.iZen.ai>  
Email: [info@iZen.ai](mailto:info@iZen.ai)

