

Course Title: Recycling Marine Debris

Course Description:

Recycling Marine Debris is a course designed for entrepreneurs, coastal community leaders, government representatives, recycling industry stakeholders, plastic manufacturing professionals, and educators who aim to turn marine debris challenges into sustainable opportunities. This interactive, field-oriented course provides an in-depth exploration of marine debris sources, hands-on experience with sorting and processing, insights into various recycling methods, and showcases innovative product development using recycled materials. Through guided facility tours, group discussions, and practical prototyping sessions, participants will gain the knowledge, skills, and confidence to integrate marine debris recycling into their operational workflows, ultimately contributing to environmental stewardship and community empowerment.

Sample Course Activities & Topics

Activity Type	Sample Topics & Exercises	Learning Objectives
Foundational Learning	<ul style="list-style-type: none">- Defining key terms and concepts- Overview of marine debris challenges in Hawaii- Field and lab safety orientation- Participant introductions and goal setting	Gain a shared understanding of the local

**Stakeholder
Engagement &
Infrastructure**

- Lab tours and meetings with stakeholders (e.g., HDOT)
- Understanding infrastructural applications of recycled materials
- Insights into policy, regulation, and community involvement

Recognize the roles of various stakeholders, explore how recycled materials fit into infrastructure, and understand how to influence or adapt to policy contexts

**Field Collection &
Material
Processing**

- Hands-on beach debris collection
- Sorting and categorizing materials for processing
- Reflecting on marine debris supply chains

Develop practical field skills in identifying and collecting debris, understand initial processing steps, and appreciate how raw materials move through the recycling stream

**Product Innovation
& Market
Feasibility**

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