Everyone comes to ‘learning’ with their own set of unique problems to solve.

Universal Design for Learning (UDL) in the Workplace:
Based on daily standard operations procedures (SOPs) Maui AQ developed a mobile, flexible learning settings to demonstrate inclusion, taking in consideration needs, families and individual strengths and needs.

HAWAII AQUAPONICS WORKFORCE MAUI (HAWM)
Aquaponics: Inclusive Discovery, Measurable Outcomes and Reflection

Three Projects, Under One Roof

PROJECT 1
Start up and Operation Microenterprise

Aquaponics® Brand Systems: An Educational Bargain!
1. Collectively operated, start-up business serves as learning tools. Trainees involved in writing SOPs, FAQ, Fact Sheets
2. Learning - what it takes to be competitively employed.
3. Learning - how to operate a system, how to sell to customers.
4. Socializing/selling at Swap Meet, Pacific Rim, Maui Fair, elsewhere
PROJECT 2
Hawaii Aquaponics Workforce Workforce Development

Eight (8) micro systems as a classroom/lab to advance career and technical education training at UH Maui College Kahului campus. Next Step: HIDOE Career and Technical Education – Natural Resources Production Pathway.

Applied AQ Science

Hands-on Learning, Deeper Understanding, and Working Knowledge

1) Science and Application of Commercial Aquaponics (water quality, role of ammonia, beneficial bacteria colonies, plants, fish et al processes)

2) Daily Operation observation, documentation/data collection methods

3) Industry Recognized Standard Operating Procedures (SOPs)
Actively involved in the assembly of the Clear Span greenhouse (5,000 sf)

1) Installation of the two (2) commercial systems – Nelson and Pade, Inc.

2) Coming Soon: Stage 3 Training involves daily operation of Controlled Environment Greenhouse utilizing Biosecurity CITI Animal Care Standards, GFSI USDA Food Safety and aquaponics industry standards (SOPs) developed and trained by Nelson and Pade.

3) Becoming certified technicians and educational school trainers.
METHODS: Participatory Action Research (PAR)
Practices as Foundation:

A PAR is a collaborative process has been initiated to:
1. Solve immediate problems;
2. Offers a reflective process of progressive problem solving led by individuals working together in teams;
3. We consider our efforts to be a “community of practice” an AQ learning community to improve the way we address issues and solve problems.

PAR: “Is comparative research on the conditions and effects of various aspects of commercial AQ, our own social actions and interactions in how we relate, research and learn.

Participatory Action Research Outcomes
PAR is described as “a spiral of steps, each of which is composed of a circle of planning, action, and fact-finding and reflections about the result of the action.”

Our PAR Community considers itself a hub of professional, adult learners on the pathways to more self-determination, better employment options and more and greater financial independence and prosperity.

NEW and USEFUL SKILLS:
team and group dynamics,
leadership development skill,
Universal Design for Learning (UDL) and the workplace,
risk-taking assessment,
critical thinking,
scientific inquiry,
conflict resolution,
problem solving processes — grown within processes of learning, public speaking; organized by individual, team and group tasks using of commercial aquaponics; science and technology; fast becoming a viable 21st century food production option on Maui and Planet Earth.

OUTCOMES - Maui Aquaponics Workers Cooperative - owners of Aquapono © Brand - Growing the Right Way for Maui and Planet Earth

Contact and Reference:
University of Hawaii Aquaponics Workforce
www.hawaiiaquaponicsworkforce.com
University of Hawaii Center on Disability Studies
www.cdhs.hawaii.edu
Nelson and Pade Inc., Montello, Wisconsin
www.aquaponics.com
Participatory Action Research: Wikipedia, the Free Encyclopedia

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Ohana for all