The VOCTEC Mobile Training Toolkit (MTT) is a portable solar PV training center “out of a box” that incorporates solar PV components, test equipment, tools and educational materials to conduct hands-on training exercises as a part of a stand-alone solar PV technician training curriculum. The MTT was specifically designed for applicability and durability to withstand the particular climate in the Pacific Islands and to be portable for on and off-site use. This allows for educational institutions and other organizations to conduct hands-on solar PV trainings in remote locations. The MTT includes all components needed to assemble, operate and troubleshoot a complete stand-alone solar home system, such as PV modules, charge controllers, battery, inverter, wiring, measurement and troubleshooting equipment, assembly tools and training materials.

The VOCTEC team developed the MTT for use in the Pacific Islands. The design and selection criteria of the major MTT parts and components were dictated by its intended application (heavy training usage in remote locations with recurring set-up and disassembly) and typical environmental and climate considerations in the Pacific Islands nations (specifically heat, humidity and ocean salt). The most critical components were thoroughly tested and selected on the basis of:

- Performance and imaging tests
- Stress tests (durability)
- Human factors (user friendliness)

Learn more at: http://voctec.asu.edu/mtt
Mobile Training Toolkit (MTT)

All MTT components are organized neatly inside a rugged vinyl case to protect them from the weather and to increase portability and usability. The MTT is accompanied by a user-friendly, outdoor suitable and visually rich solar PV training manual for instructors and educators. It includes a step-by-step user guide for setting up and disassembling the MTT and extensive, detailed solar PV hands-on exercises and worksheets for instructor and students organized by training topic.

Based on our experience of numerous training events in the Pacific, the MTT has proven itself as an invaluable asset for VOCTEC’s solar PV technician trainings. We continue to extend the applicability of MTTs to other regions around the world.

What is VOCTEC?

The "Vocational Training and Education for Clean Energy" (VOCTEC) program, under the leadership of Arizona State University (ASU), is a 5 year global program funded by the United States Agency for International Development (USAID). VOCTEC aims to improve the sustainability of renewable energy infrastructure and investments in developing countries by increasing awareness, knowledge and capacity of local stakeholders, primarily in decentralized clean energy technologies.

“Overall, the labs component was a huge success… the MTTs were a great resource and with the hard case and quality components will give us the best bet of surviving the conditions here.”

Emeline Vakalahi
Tonga Institute of Science and Technology

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