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THE SCHOOL DISTRICT OF MANATEE COUNTY FEATURES A STUDENT AND A CAREER & TECHNICAL EDUCATION TEACHER

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Inquizi
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SCHOOL Biz

**Business and Education—
 A Win-Win Partnership**

The lead teachers in all of these hands-on, experience-based programs agree that without the business and community partnerships, the programs would not be possible or successful. It is a win-win collaboration where everyone gets a return on the investment—an excellent business/education partnership. Pictured below are the Design and Construction teachers in Manatee County Public Schools.



Bob Lounds (Palmetto High School), Christie Richardson (Construction Technology Careers), and Ray Weiland (Southeast High School)



Manatee High School teachers Joe Orr, Jeff Sharp, Joan Stencik, and Dwayne Fintel



DISCOVER the Future

Career Pathways in Manatee County

According to the Florida Agency of Workforce Innovation, Labor Market Statistics, the following average hourly wages exist for careers in the building industry:

Architect	\$31.82
Architectural Draftsperson	\$18.96
Building Inspector	\$20.51
Carpenter	\$14.86
Civil Engineering Technician	\$18.71
Construction Foreman	\$22.94
Construction Manager	\$42.39
Equipment Operator	\$14.40
Estimator	\$22.85
Plumber	\$16.24
Surveyor	\$22.99

http://www.payscale.com cites the following mean wage ranges for design professionals:

- Interior Designer—\$16.60 hourly or \$35,759 annually
- Construction/Commercial Design—\$47,317 annually

Tech Prep Career Pathway: Students desiring design or construction careers can find related educational programs at these area schools*: Manatee High School, Palmetto High School, Southeast High School, Manatee Technical Institute, Sarasota County Technical Institute, Manatee Community College, and the University of South Florida.

*Other Manatee schools may offer similar programs. Listed schools are related to today's issue.

WEB Wise

Check out the following websites:

- www.manatee.k12.fl.us/sites/highschool/palmetto
- www.manatee.k12.fl.us/sites/highschool/manatee
- www.ManateeACT.com
- www.ConstructionTechnologyCareers.org
- www.floridatsa.com
- www.flfccla.org
- www.futurebuildersofamerica.org

KIDZ Biz & Buzz



Construction students complete OSHA training

Students Rate Construction as a "Bang Up" Career

Students describe their experience at Palmetto High's Center for Construction Design as being a "bang up" year! Bob Lounds and David Sell, lead teachers for the Center, have taken a hands-on approach in teaching their students the skills they need to become employable.

The job site: Palmetto High School.
The job: Design and construction of their very own pole barn.
The purpose: To involve students in all aspects of building and designing while providing a place for the students to learn about and build a business.

One of the goals of the Center is to become self-supporting, and the pole barn is a step toward that goal. Students will use it to build and store the sheds, picnic tables and even low-income housing that will be sold for profit. The pole barn itself will take two years to finish, with many learning experiences worked into the curriculum. This year the students will complete the first phase of the project, the exterior of the structure. They have developed drawings and blueprints of the pole barn that have been submitted for review by instructors and advisory council members. They have also prepared for and are proceeding with the permitting process.

Next year, the students look forward to phase two of the project. This phase involves the students working on the plumbing and electrical wiring of the pole barn. While practicing their construction and design techniques, they are learning about marketing, software, banking, insurance, and security.

Part of this effort has been made possible through a grant from the Associated General Contractors (AGC) headquartered in Virginia. PHS was one of eight grant recipients in the United States. The sky is the limit for these students, especially under the leadership of this group of remarkable educators.

For more information on the PHS Center for Construction, contact Bob Lounds at 723-4848.

InnoVators CAREERS IN CONSTRUCTION AND DESIGN

Partnerships between business and education are used by school staff to foster school/community cooperation, provide incentives for students, supplement curriculum and staff, and obtain equipment. When the phrase *business partner* is uttered, some still think of the grocery store that provides cookies after the school play or the business that offers pencils or pizza parties as incentives for reading. Those partnerships remain vital in every public classroom, but as our culture changes and technology grows at lightning speed, business/industry involvement in the classroom must evolve to keep up with the demand for a skilled workforce.

The Center for Design and Construction

In partnership with local business and industry, Manatee High School offers students a unique program specifically geared toward careers in design and/or construction. The goal is to provide an improved education for students who are interested in interior design, architecture, and/or building and construction. Students enrolled in the Center will complete all requirements for graduation as well as electives that comprise a career-focused program of study.

Through hands-on learning, use of technology, mentoring, job shadowing, and internships in drafting, interior design, and/or building and construction, students will have the unique opportunity to develop the necessary skills to receive part-time or full-time employment and work toward higher wages. They will also be more able to make informed career choices after their relevant and rigorous coursework specifically integrated with a focus on their chosen career path.

The academic curriculum is integrated with the technical curriculum, giving students opportunities to see the real-world application of academics. Students are grouped together in classes with the same teachers whenever possible, allowing teachers to build classroom rigor and relevance in unique ways.

The Center will be associated with two of the most progressive Career and Technical Student Organizations at Manatee—Family Career Community Leaders of America (FCCLA) and the Technology Student Association (TSA).



Hands on learning under the leadership of instructor Joe Orr



Student designs layout for room

Explore IT

Construction Zone Scrap Sculpture

Walk through downtown Sarasota and you'll encounter the art of sculpture. Walk through any construction zone and you'll encounter plenty of scrap materials. Here's the challenge: combine your hard hat and your inner artist to create a scrap-inspired sculpture!

You will need:

- Construction scraps: wood, metal, wire, and anything else you find on the job site.
- (No stealing! Be sure it is headed for the trash.)
- Glue
- Hammer and nails
- Screws and screwdriver
- Tempera or other water-based paint
- Water and water containers
- Sponge and paint brushes
- Embellishments: buttons, beads, scrap wallpaper

Getting started:

Lay out the scraps of wood and metal. Move pieces around and put pieces together randomly. Imagine your sculpture taking shape. Once you have an idea, glue, nail, or screw the pieces together to create a sculpture. It could be a representation of something real—like a bird or an animal; or it could be completely wild and freeform. Want color? Use diluted tempera paint to stain pieces of wood. Mix one part paint to three parts water. Use a sponge to stain wooden parts of your sculpture. Embellish the sculpture with buttons, beads, or whatever else you've found. Voila! Construction arts.



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