



TEACHNG WITH SMALL BOATS 2015 CONFERENCE

April 30 ~ May 2, 2015 Port Townsend, WA

Overview of Marine/Maritime Education
Around the Country



The Maritime Academy of Toledo Campus 803 Water St. AND 1 Maritime Plaza 2nd Floor Toledo, Ohio

Grades 5 - 12

- > Tuition-Free (Nautical Themed) Public School
- > 89% 91% Disadvantaged (poverty-level income)
- Racial Diversity
 - 37% Caucasian
 - 38% African American
 - 16% Latino
 - 9% Mixed Race
- Gender Diversity: 50% Male/ Female
- Diploma-Based Curriculum
- College Prep Common Core/Ohio Standards
- Career Tech Education Programs
 - Professional Mariner
 - Culinary
- > 24 30 Post-Secondary (College) Credits
- After School Enrichment til 6 p.m.

Our Story



Setting the Stage: Our Campus



Mini Conference Center



Movie Theater



Board Rooms





Accommodations and Amenities





Continuing Our Story



Curriculum Design

Grades 5-8 Nautical Traditions

Grades 7-8 Intro to Marine/Maritime Occupations

Grade 9 Maritime Skills

Grade 10 Maritime Curriculum (Deck and Engine)

Grades 11 – 12 Maritime Deck, Engine, Culinary

(Owens Community College - welding,

electronics, electricity, small engine, diesel

engine, hydraulics)

Marine Sciences: Marine Biology

Ecology

Environmental Science

Limnology

Aquatic Capture

Water Quality / Pollution Control

Marine Career Tech Education Curriculum

Maritime Occupations

- Seamanship
- Boat Building 1 & 2
- Ships Systems
- Navigation
- Weather for the Mariner
- Rules of the Road
- Maritime Security
- Electronic Navigation
- STCW-Basic Safety Training

Culinary Occupations

- Intro to Culinary
- Pro Serve
- Galley Hygiene
- Recipe Prep
- Dining RoomManagement
- Food Labs

Career Tech Cadets at Owens Community College

Small Engine Repair Class





Diesel Class









Class A Full Mission Bridge Simulator 8 Station Radar Classroom



Mariner I





Research and Education Vessel











Cadets in the Boat Building Lab

Building the Ships Hatch Tables



Turning the table legs on the lathe



Routering the hatch straps



"Antiquing" the hatch cover with chain



4 Skiffs, 1 Tugboat 4 Cardboard Boat Races









Boat Race

Drumline





USCG Uniforms

Color Guard

Parade Ready!

Partnerships

Great Lakes Maritime Academy

Traverse City, Michigan









The State of Michigan Training Ship visits TMAT and Invites 12 cadets to sail with them from Toledo to Detroit May, 2014



Partnerships

ON BOARD the M/V Manistee









Partnerships



USS Toledo crew and Commander Mike Majewski visit TMAT August, 2014

Future Programming: Agriculture and STEM Science, Technology, Engineering, Math

- Science
 - Biology
 - Ecology
 - Environmental Science
 - Marine Biology
 - Physical Science
 - Physics
- Environmental and Marina Management
- Immersive Simulation Technology
 - Welding
 - Tugboat
 - Crane
- Engine Room Simulator (Engineering)
- Nautical Mathematics

TMAT Graduate Credentials

Basic Safety Training

Passport

Transportation Worker Identification Credential

Physical Exam

Drug Test

Merchant Marine Credential

Saving and Checking Bank Accounts



B S T

Personal Survival and
Water Rescue
Required for all Mariner
Career Tech Graduates

Fire Training and MARAD





First Aid
CPR



Our Successes

School	#	% 0	Industry	#	#	#	#
Year	Graduates	Graduated	Credentialed	Maritime	In	Employed	In
				Jobs	College		Military
2007	2	100%			1		1
2008	1	100%			1		
2009	6	100%			2	2	1
2010	9	100%			3	2	2

2014 19 95% 4 3 6 7 3
One Student is a Freshman at Great Lakes Maritime Academy!

93%

88%

95%

The next generation of the maritime workforce
They are in K-12 schools right now -- not old enough to
drive but learning how to pilot a boat, rules of the road,
chart reading, engines, welding and more.





K-12 Marine / Maritime Schools Are Ready to Navigate Through The Perfect Storm With You!



Are You Ready to Change Course Marine / Maritime Workforce Development: Partnerships with Primary & Secondary Schools

Our Funding Challenges! How Could The Marine/Maritime Industry and Colleges/Universities Support Us?

Internships

If you get to know us, we'll make our needs known to you

internatipa	•					
Partnerships: include us in grants, employees as volunteers						
Career Days and Job Placement ?						
Guest Speakers and Field Trips	?					
Become Trainers for Professional Mariner Professional Courses?						
Purchase a USCG uniform – per student	\$70					
Scholarships	\$500-\$1000					
Lifeboat and Davit	?					
Purchase or Donate Professional Mariner Courses	?					
Small Chase Boat for rowing and kayaking activities	?					
Graduate Credentials - per graduate	\$500					
Checking and Savings Account	\$50					







Maritime Primary & Secondary Education Coalition (K-12 Schools) http://mpsecoalition.com







The Perfect Storm Let's Change Course Together!

