

Transportation Technology, AAS

Maritime – Concentration

Academic Year 2025-2026

Program Description:

The Transportation Technology Program provides a specialized distance learning education and training for the student or current industry employee having an interest in the transportation field. This unique on-line, distance learning and life-experience curriculum breaks the tether to the traditional classroom. It is designed to support a drop-in/drop-out lifelong learning philosophy of continuing education and ladder degree options from a certificate of achievement for specific skill sets to an Associate's, Bachelor's and Master's degree in transportation studies. In addition to formal academic credit, the program is designed to accept related credit equivalency from any academic, vocational, or industry training program to include documented life-long learning skills, test-out exams, industry recognized certifications, and/or continuing education units (CEU's).

The Maritime Technology option provides training and/or college equivalent credit for becoming a deckhand, tankerman, captain, or engineer who works on a vessel. These employees operate and maintain civilian-owned merchant ships, tugboats, towboats, ferries, barges, offshore supply vessels, cruise ships and other waterborne crafts. Some merchant mariners spend extended periods on the river or at sea while others operate close to port and can go home at night.

Career Outlook:

For the most current career outlook information, please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at <http://www.bls.gov/ooh/transportation-and-material-moving/water-transportation-occupations.htm#tab-6>.

Salary Forecast:

For the most current salary information, please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at <http://www.bls.gov/ooh/transportation-and-material-moving/water-transportation-occupations.htm#tab-5>.

Entrance Requirements: Please e-mail Jenna Vanhoose for admissions information.

Contact Information:

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Mountwest empowers students to learn and lead in the community and in the workforce.

Transportation Technology - Major Code – CT40 • Maritime Concentration Code – CT44	
Name:	ID Number 942-
Educational Counselor:	Faculty Advisor:

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
Component I---General Education Core (online)							
ENL 101	Written Communication ¹		3				
IT 101	Fundamentals of Computers (EDGE)		3				
	Communication/English Elective ²		3				
	General Education Elective ³		3				
MAT 135	Technical Math		3				
Component II---Maritime Industry related credentials (minimum 15 hours from the courses below or other Coast Guard approved courses⁴)							
Deckhand	3	200 GRT Celestial Navigation	6	Automated Radar Plotting Aids (ARPA)	2		
100 GRT Master	6	Celestial Navigation (Operational)	9	CA 270 Managing Culinary Operations	2		
Able Seaman	3	Piloting and Navigation	3	Cargo Handling and Stowage (Operation)	3		
Apprentice Mate (Inland)	9	Tankerman – PIC (Barge)	3	CA 200 Culinary Sanitation and Safety (EDGE)	2		
Auxiliary Sailing	1	Medical Care First Aid Provider	2	Emergency Procedures (Operational)	2		
CA 235 Menu Planning	2	Terrestrial and Coastal Navigation	6	Proficiency in Survival Craft (Lifeboat)	2		
CA 245 Culinary Nutrition	2	Shipboard Deck Operations	3	QMED Oiler (Steam and Motor)	18		
DDE 1000	12	200 GRT Rules of the Road	3	QMED FOWT	18		
EC 102 Basic Economics ¹	3	RFPNW (Lookout only)	1	MG 101 Introduction to Business (EDGE)	3		
Electronic Navigation	3	Crisis Mgmt & Human Behavior	1	CA 260 Culinary Selection and Procurement	2		
GMDSS	5	Environmental Protection Rules	3	Upgrade OUPV to 100 GRT Master	2		
Meteorology (Operational)	3	Magnetic and Gyro Compasses	2	Automated Radar Plotting Aids (ARPA)	2		
MT 105 Industrial Safety	2	RFPNW (Assessments only)	1	ISM 133 Principles of Supervision and Mgmt.	3		
QMED (Restricted)	5	Wheelhouse Resource Management	3	CA 120 A la Carte I (EDGE)	2		
QMED Oiler (Motor)	6	Radar Observer (Unlimited)	3	Watchkeeping and Bridge Res. Mgt.	6		
RFPEW	3	Operator Uninspected Vessels	4	Apprentice Mate (Inland and NC)	1-12		
Rules of the Road	3	IW 202 Advanced Firefighting	2	Upgrade 100GRT to 200GRT Master	2		
Search and Rescue	1	Upgrade Steersman WR to Inland	7	Flashing Light/Visual Communication	1		
Tank Barge Firefighting	1	Tankerman Assistant (Familiarization)	2	Towing Assistance	1		
Component III---Transportation Core (online)							
TRAN 101	Intro Transportation Systems		3				
Choose five additional courses from the list below:							
TRAN 200	Transportation Law & Policy		3				
TRAN 210	Transportation Economics		3				
TRAN 220	Transportation Security		3				
TRAN 230	Transportation Geography		3				
TRAN 250	Transportation Information Systems		3				
TRAN 265	Transportation Management & Operations		3				
TRAN 270	Intelligent Transportation Systems (ITS)		3				
TRAN 273	ITS Systems & Applications		3				
TRAN 274	ITS Project Management		3				
MG 232	Supply Chain Management		3				
Component IV---OJT/Fieldwork							
TS 102	On-The-Job Training/Fieldwork		6-12				

¹ EC 102 and ENL 101 has a prerequisite of placement in 100-level English.

² Choose from any English or Communications 100-level or above.

³ Choose from any Math, Science, Social Science, English, Communication, History, or Humanities courses.

⁴ Contact Jenna Vanhooze: parker54@mctc.edu or 304-710-3414.

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