

# Transportation Technology AAS

## Maritime – Concentration

Career & Technical Division

### 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 Dr. Wood, Transportation Program Coordinator, for admissions information.

### Contact Information:

Dr. Kristy Wood  
MCTC Room 205  
Email: [Wood25@mctc.edu](mailto:Wood25@mctc.edu)  
Phone: 304-710-3396 or Call: 1-866-N-ROLLED (1-866-676-5533)

*Our mission is to prepare students for careers, civic responsibility and life-long learning.*

**Transportation Technology - Major Code – CT40 • Maritime Concentration Code – CT44**

|                               |              |                 |                         |             |  |
|-------------------------------|--------------|-----------------|-------------------------|-------------|--|
| <b>Name:</b>                  |              |                 | <b>ID Number 942-</b>   |             |  |
| <b>CAPS SCORES:</b>           | <b>MATH:</b> | <b>ENGLISH:</b> | <b>READ:</b>            | <b>DOE:</b> |  |
| <b>COL 101 Faculty:</b>       |              |                 |                         |             |  |
| <b>Educational Counselor:</b> |              |                 | <b>Faculty Advisor:</b> |             |  |

| COURSE   | REQUIREMENTS                                | SEM | HRS | GR | SUBSTITUTE/REPEAT CRS | SEM | CR |
|--|---|-----|-----|----|-----------------------|-----|----|
| <b>Component I---General Education Core (online)</b> |   |     |     |    |                       |     |    |
| ENL 111  | Written Communication <sup>1</sup>          |     | 3   |    |                       |     |    |
| IT 101   | Fundamentals of Computers (EDGE)            |     | 3   |    |                       |     |    |
|  | Communication/English Elective <sup>2</sup> |     | 3   |    |                       |     |    |
|  | General Education Elective <sup>3</sup>     |     | 3   |    |                       |     |    |
|  | Math Elective <sup>4</sup>                  |     | 3   |    |                       |     |    |

| <b>Component II---Maritime Occupation Specialty Courses (minimum 15 hours from the courses below or other Coast Guard approved courses<sup>5</sup>)</b> |    |                                    |   |  |      |  |  |
|---|----|------------------------------------|---|--|------|--|--|
| Deckhand  | 3  | 200 GRT Celestial Navigation       | 6 | Tankerman Assistant (Familiarization)        | 2    |  |  |
| 100 GRT Master  | 6  | Celestial Navigation (Operational) | 9 | Automated Radar Plotting Aids (ARPA)         | 2    |  |  |
| Able Seaman   | 3  | Piloting and Navigation            | 3 | CA 270 Managing Culinary Operations          | 2    |  |  |
| Apprentice Mate (Inland)  | 9  | Tankerman – PIC (Barge)            | 3 | Cargo Handling and Stowage (Operation)       | 3    |  |  |
| Auxiliary Sailing   | 1  | Medical Care First Aid Provider    | 2 | CA 200 Culinary Sanitation and Safety (EDGE) | 2    |  |  |
| CA 235 Menu Planning  | 2  | Terrestrial and Coastal Navigation | 6 | Emergency Procedures (Operational)           | 2    |  |  |
| CA 245 Culinary Nutrition   | 2  | Shipboard Deck Operations          | 3 | Proficiency in Survival Craft (Lifeboat)     | 2    |  |  |
| DDE 1000  | 12 | 200 GRT Rules of the Road          | 3 | QMED Oiler (Steam and Motor)                 | 18   |  |  |
| EC 102 Basic Economics <sup>1</sup>   | 3  | MMA 107 Crowd Management           | 1 | QMED FOWT                                    | 18   |  |  |
| Electronic Navigation   | 3  | RFPNW (Lookout only)               | 1 | MG 101 Introduction to Business (EDGE )      | 3    |  |  |
| GMDSS   | 5  | Crisis Mgmt & Human Behavior       | 1 | CA 260 Culinary Selection and Procurement    | 2    |  |  |
| Meteorology (Operational)   | 3  | Environmental Protection Rules     | 3 | Upgrade OUPV to 100 GRT Master               | 2    |  |  |
| MT 105 Industrial Safety  | 2  | Magnetic and Gyro Compasses        | 2 | Automated Radar Plotting Aids (ARPA)         | 2    |  |  |
| QMED (Restricted)   | 5  | RFPNW (Assessments only)           | 1 | ISM 133 Principles of Supervision and Mgmt.  | 3    |  |  |
| QMED Oiler (Motor)  | 6  | Wheelhouse Resource Management     | 3 | CA 120 A la Carte I (EDGE)                   | 2    |  |  |
| RFPEW   | 3  | Radar Observer (Unlimited)         | 3 | Watchkeeping and Bridge Res. Mgt.            | 6    |  |  |
| Rules of the Road   | 3  | Operator Uninspected Vessels       | 4 | Apprentice Mate (Inland and NC)              | 1-12 |  |  |
| Search and Rescue   | 1  | MMA 280-289 Special Topics         | 2 | Upgrade 100GRT to 200GRT Master              | 2    |  |  |
| Tank Barge Firefighting   | 1  | IW 202 Advanced Firefighting       | 2 | Flashing Light/Visual Communication          | 1    |  |  |
| Towing Assistance   | 1  | Upgrade Steersman WR to Inland     | 7 | Tankerman Assistant (Familiarization)        | 2    |  |  |

| <b>Component III---Transportation Core (online)</b>        |  |  |   |  |  |  |  |
|--|--|--|---|--|--|--|--|
| TRAN 101   | Intro Transportation Systems             |  | 3 |  |  |  |  |
| <b>Choose five additional courses from the list below:</b> |  |  |   |  |  |  |  |
| 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 |  |  |  |  |

| <b>Component IV---OJT/Fieldwork</b> |                               |  |      |  |  |  |  |
|-------------------------------------|-------------------------------|--|------|--|--|--|--|
| TS 102                              | On-The-Job Training/Fieldwork |  | 6-12 |  |  |  |  |

<sup>1</sup> EC 102 and ENL 111 has a prerequisite of placement in 100-level English, and placement in 100-level reading.

<sup>2</sup> Choose from any English or Communications 100-level or above.

<sup>3</sup> Choose from any Math, Science, Social Science, English, Communication, History, or Humanities courses.

<sup>4</sup> Choose any Math 100-level or above. Math has a prerequisite of placement in 100-level mathematics.

<sup>5</sup> Contact Dr. Kristy Wood: [wood25@mctc.edu](mailto:wood25@mctc.edu) or 304-710-3396.

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