



COLLEGE OF SCIENCE,
ENGINEERING AND TECHNOLOGY

Maritime Certification Courses

List of Approved Course by the U.S. Coast Guard



Course Title	Course Number	Duration	Cost
Personal Safety & Social Responsibilities	TSUMTM - 359	1 Day	\$400.00
Hazardous Materials Regulation	TSUMTM - 214	5 Days	\$1,150.00
Marine Environmental Awareness	TSUMTM - 710	3 Days	\$1,000.00
Crisis Management & Human Behavior	TSUMTM - 138	1 Day	\$400.00
Crowd Management	TSUMTM - 142	1 Day	\$400.00
Advanced Chemical Tanker	TSUMTM - 714	5 Days	\$1,150.00
Tank Ship Familiarization (Dangerous Liquids)	TSUMTM - 505	5 Days	\$1,150.00
First Aid, CPR & AED	TSUMTM - 203	2 Days	\$600.00



Texas Southern University, College of Science & Technology,
Department of Transportation Studies, 3100 Cleburne Avenue, Houston, Texas 77004

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HAZMAT (HAZARDOUS MATERIALS REGULATIONS (5 Days))

Course Description:

The HAZMAT training course consists of 40 hours of in-class theories and practical training/drills pertaining to the U.S. DOT Hazardous Materials Regulations. The course satisfies the requirements for the safe and secure transportation of hazardous materials by port authorities, freight forwarders, shippers, inspectors, manufacturers, shipboard and ashore personnel. [Participants receive eleven \(11\) days sea service credit towards any deck or engine credential or endorsement.](#)



Course Objectives:

TSU will offer participants a full HAZMAT training on Regulatory and Operational issues, as well as in the following areas:

1. *General Awareness:* familiarization with the hazardous materials transportation regulations, enabling participants to fully comply and fit their professional duties and responsibilities into the system.
2. *Transport-Specific:* provides training related to carriage of materials, i.e. by sea and in the entire logistics chain. This section will be useful to Authorities, transportation professionals, logistics companies, and other professionals in charge of HAZMAT implementation.
3. *Safety & Environment:* offers professionals in Oil/Gas/Chemical and other industries, especially personnel handling or exposed to hazardous materials the knowledge required in safe handling and emergency response procedures.
4. *Security Awareness:* HAZMAT employees will learn how to recognize and protect against potential terrorist threats pertaining to hazardous material shipments.
5. *Security Plan:* Training in company security objectives for operations that require a written security plan, organizational structure and specific procedures.



Course Requirements : USCG, STCW-95 Endorsement

This training course is in compliance with **A) the STCW Convention**, Regulation II/2, Sections A-II/2, B-V/b, B-V/c and Chapter 5, **B) the U.S. DOT Hazardous Materials Regulations (HMR)**, **C) 29 CFR Part 1910**, Occupational Safety & Health Standards, Subpart H, HAZMAT. **D) 33 CFR Part 155**, Oil Or Hazardous Material Pollution **E) 40 CFR Hazardous Wastes**, and **F) 49 CFR Parts 100-185**.

Written Exam: A minimum passing score of 70% is required.

Certification approved by STCW/USCG: Upon training & exams completion, participants will receive a TSU Maritime Certificate of Training, valid for 5 years.

Location: TSU Campus or clients' premises (* subject to USCG/NMC approval).

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Texas Southern University Maritime Certification Program

ADVANCED TRAINING FOR CHEMICAL TANKERS (5 Days)

Course Description:

This 40-hour training course will provide participants with substantial knowledge on the Oil & Gas industry, the carriage and handling of dangerous liquids via chemical tank ships, Refineries and Pipelines.

Course Objectives:

Upon completion of this Course, participants will learn about:

- Chemical Tankers & Carriage of chemicals;
- MARPOL 73/78 Annex I and Annex II requirements;
- Loading plan, cargo transfers and hull stresses;
- Vessel Emergency Response Plans, Emergency Procedures;
- Operational procedures, Pollution prevention Rules;
- Occupational health and safety; Cargo-handling,
- Auxiliary & Instrumentation systems;
- Cargo Loading & Discharging operations; HAZMAT Chemical Liquids; Operating procedures and measures for controlling the chemical tank environment;
- Chemical cargo-tank cleaning procedures, Inert gas systems,
- Vapor-Control Recovery Systems;
- Cargo Hazards, Confined space entry.



Course Requirements : USCG,NMC, also 33 CFR 154.94, 46 CFR 150 – 153, 46 CFR 13.209, 13.309, 13.409 or 13.509 for USCG Merchant Mariners’ Tankerman Endorsement, 10.227(d)(8)(c) for renewal of a merchant marine credential endorsed as Tankerman PIC DL and oil tanker, chemical tanker training. The course is also in accordance to the tanker familiarization requirements of STCW Code, Section A-V, Para. 1-21, V/1-2 paragraph 2.2 and section A-V/1, paragraphs 16 to 21 and Table A-V/1-3; MARPOL 73/78 Annex I and Annex II; whereas is in line with the IMO Model Course 1.04.

Written Exam: A minimum written test score of 70% is required.

Certification approved by STCW/USCG: Upon training & exams completion, participants will receive a TSU Maritime Certificate of Training, valid for 5 years.

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TANK SHIP FAMILIARIZATION AND DANGEROUS LIQUIDS (5 Days)

Course Description:

This 40-hour training course will become familiar with tank ships as well as the carriage and handling of dangerous liquids.

Course Objectives:

Upon completion of this Course, participants will learn about:

- Tanker Ships, Oil & Chemicals Carriage, Barge Terminology;
- MARPOL 73/78 Annex I and Annex II requirements;
- Load line, draft, trim & stability requirements;
- Load & Stability plan, cargo transfers and ballasting stresses;
- Vessel Emergency Response Plans, Emergency Procedures;
- Operational procedures, Pollution prevention Rules;
- Occupational health and safety; Cargo-handling,
- Auxiliary & Instrumentation systems;
- Cargo Loading & Discharging operations; Bulk Liquids defined as Dangerous Liquids (46 CFR Subchapter .D), i.e. Common characteristics, reaction, compatibility and safety measures;
- Operating procedures and measures for controlling the cargo tank environment;
- Cargo-tank cleaning procedures, Inert gas systems, Vapor-Control Recovery Systems;
- Information systems on hazards of cargo, Confined space entry.



Course Requirements : USCG, STCW-95 Endorsement

46 CFR 13.209, 13.309, 13.409 or 13.509 for USCG Merchant Mariners' Tankerman Endorsement, 10.227(d)(8) (c) for renewal of a merchant marine credential endorsed as Tankerman PIC DL and oil tanker, chemical tanker training and tanker familiarization requirements of STCW Code, Section A-VI, Para. 1-21.

Written Exam: A minimum written test score of 70% is required.

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MARINE ENVIRONMENTAL AWARENESS, STCW (3 Days)

Course Description:

This training course provides training on environmental awareness, in compliance with the new Manila Amendments to the STCW Code, effective as of January 1, 2012. Participants get to understand the environmental challenges and effects of shipping practices, as well as the necessity of implementation and compliance to Codes and Regulations. They also gain knowledge of pollution prevention measures, and protection of the maritime environment.



Course Objectives:

Upon completion of the Training the student will be able to demonstrate awareness on the following areas:

- Environmental Protection, the operational and commercial impact of rules, regulations, procedures and technical installations.
- Shipping Environment complexity and diversity.
- Practices for Sustainable Environmental protection in Shipping
- The Human Element factor in pollution prevention and pro-activeness.
- Application of personal responsibility in maritime environmental protection.
- Environmental challenges and opportunities in shipping.



Course Requirements: USCG, IMO, Revised STCW Code 2012, Chapter VI Basic Training & Chapter II & III: Officers' Knowledge, Understanding and Awareness.

Written Exam: A minimum passing score of 70% is required.

Certification approved by STCW/USCG: Upon training & exams completion, participants will receive a TSU Maritime Certificate of Training, valid for 5 years.

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CRISIS MANAGEMENT & HUMAN BEHAVIOR (1 Day)

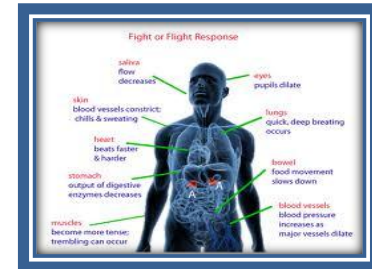
Course Description:

This course has been designed for Masters, Officers, Crew personnel responsible for passengers' safe embarkation and disembarkation during an emergency, as well as ashore Emergency Response team members. Through a number of real-life scenarios and drills/practical exercises, participants will learn how to retain control during critical situations, how to establish effective communication and understand human behavior during an emergency.

Course Objectives:

Upon course completion, students will learn how to:

- Organize shipboard emergency procedures in synchronicity with office's emergency response team;
- Act based on Ship design & layout, emergency plans & safety procedures;
- Utilize resources in an optimum way;
- Learn from onboard drills and prevent recurrence;
- Control all elements of hull integrity & cargo safety;
- Safely control personnel and passengers during an emergency;
- Organize the safe movement of passengers and vehicles during embarkation and disembarkation;
- Monitor and control atmosphere in ships' cargo spaces, e.g. Ro-Ro ships.



Course Requirements : USCG, STCW-95 Endorsement

STCW Code Section VII, VIII and IMO Model Course I.29.

Written Exam: A minimum written test score of 70% is required.

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CROWD MANAGEMENT & PASSENGER SAFETY (1 Day)

Course Description:

This 8-hour training course will provide familiarization, safety training and Crowd Management techniques to Masters, Officers, Crew of Passenger & Ro-Ro ships, as well as office emergency response team and ashore personnel offering direct services to passengers.



Course Objectives:

Upon completion of Crowd Management Course, students will learn how to:

- Comply with the ship's safety and emergency procedures;
- Distinguish different types of emergency and act accordingly.
- Ensure smooth collaboration between port, ashore and shipboard crew.
- Control and maintain effective communication with crew and passengers during an emergency;
- Locate safety and emergency equipment on board;
- Effectively use personal life-saving equipment;
- Harmonize the regulatory requirements with emergency action plan and manuals.



Course Requirements : USCG, STCW-95 Endorsement

STCW Code Section VII, VIII and IMO Model Course I.28.

Written Exam: A minimum written test score of 70% is required.

Certification approved by STCW/USCG: Upon training & exams completion, participants will receive a TSU Maritime Certificate of Training, valid for 5 years.

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TRAIN THE TRAINER, STCW PART B' (2 Days)

Course Description:

STCW requires the proper qualifications and certified courses of instructors training seafarers. This 16-hour training course will offer maritime executives and officers the knowledge and skills to design, produce and deliver maritime training programs ashore and onboard ships. It is a useful tool for maritime professionals of limited training experience.

Course Objectives:

Upon completion of this course, students will learn about:

- Training requirements of STCW, SOLAS, MARPOL, ISM, ISPS, ISO 14001, ISO 9001 Codes.
- Training purpose & identifying training needs
- Benefits of training & the learning process
- Architecture, planning and developing courses
- Training methodologies
- Communication & Interpersonal skills
- Assessment & evaluation of training courses.



Course Requirements: USCG NVIC 6-97; Policy on Qualified Instructor and Designated Examiners Who Train or Assess the Competence of Merchant Mariners.

STCW 1978, as amended (STCW 95) Section A-1/6; Training and Assessment and Guidelines on STCW Qualified Instructors and Designated Examiners. IMO Model Course 6.09.

Written Exam: A minimum written test score of 70% is required.

Certification approved by STCW/USCG: Upon training & exams completion, participants will receive a TSU Maritime Certificate of Training, valid for 5 years.

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PERSONAL SAFETY & SOCIAL RESPONSIBILITIES (PSSR) (1 Day)

Course Description:

This training course consists of 8 hours of in-class theories and practical training/drills on the STCW-95 safety procedures and accident prevention. Participants will learn how to identify and act effectively under different types of Emergencies. A number of Drills and Training will enable their familiarization with safe working practices, so as to protect human life, the environment and property.

Course Objectives:

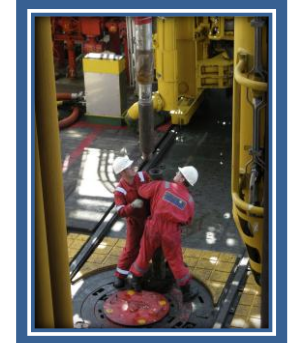
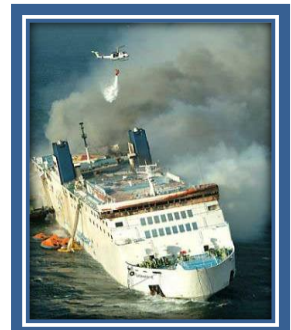
Upon completion of the course, participants will be able to:

- Communicate and deliver orders effectively;
- Use safety equipment and take escape routes per instructions;
- Take safety precautions before enclosed space entry;
- Identify emergency signals in station bill;
- Learn the proper use of Lock Out Tag Out;
- Take safety measures regarding pollution prevention during their duties;
- Understand and comply with policies on drug and alcohol;
- Create and maintain appropriate employee relations.

Course Requirements : USCG, STCW-95 Endorsement

Section Chapter VI, Table VI/1, sections A-VI/1, A-VI/2, A-VI/3, and A-VI/4; Table A-VI/1-4; .46 CFR 10.205, 46 CFR 11.202 (b) (4).

Written Exam: A minimum written test score of 70% is required.



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FIRST AID, CPR AND AED (2 Days)

Course Description:

The course consists of 16 hours of practical training, video demonstrations and lectures on First Aid, cardiopulmonary resuscitation (CPR) and Automated External Defibrillation (AED).

Participants will be trained to act in emergency situations both onboard and at the port area, and learn how to identify and care for life-threatening respiratory or cardiac emergencies in adults. The practical session entails the use of anatomical mannequins and Defibrillators to professionally train crew to rescue and respond to breathing and cardiac emergencies.

Course Objectives:

Upon completion of Elementary First Aid & CPR, students will be able to:

- Offer basic life support for an adult victim;
i.e. cardio-pulmonary resuscitation (CPR), and the use of an automated external defibrillator (AED) to treat victims of cardiac arrest;
- Offer Initial first aid/ treatment for severe bleeding;
- Offer Initial first aid/treatment for severe burns;
- Safely provide basic patient transport.



Course Requirements : USCG, STCW-95 Endorsement

STCW Code Table A-VI/4-1, Table A-VI/1-4

46 CFR 10.102(b), 46 CFR 10.205 (h), 46 CFR 10.205 (i), 46 CFR 10.205

(ii), 46 CFR 10.205 (3)

Written Exam: A minimum written test score of 70% is required.

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