



About the Program

The Technical Diploma in Industrial Marine Electronics Technology consists of 45 credit hours and 1690 clock hours of curriculum. The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare students for employment in a variety of jobs in the field of Industrial Marine Electronics.

The program includes instruction in using actual equipment or educational trainers in various types of equipment, motors, mechanical diagrams/schematics, radar; fiber optics, laser technology, computer applications, telecommunications, microwave, hydraulics, plc, video, industrial controls, industrial wiring, diagnostic and troubleshooting techniques, and the use of testing equipment. The program also covers standards and licensure requirements of the Federal Communications Commission

(FCC), National Association of Business and Educational Radio (NABER), Fluid Power Society, Electronics Technician Association, National Electrical Code, and Remotely Operated Vehicle (ROV). Upon completion of the Technical Diploma, students will have the knowledge and skills to become employable as an entry-level ROV technician. The curriculum also consists of elective courses that will prepare students to take the FCC examination for licensure.

Degrees/Certificates

Technical Diploma (TD)
Certificate of Technical Studies (CTS)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

CIP 470616

Industrial Marine Electronics Technology				
Course #	Course Title	Lecture/Lab Hours	Credit Hours	Clock Hours
ORNT1000	Student College Career Success Seminar	1/0	1	15
IMEL1020	Introduction to Direct Current Circuits	1/2	3	120
IMEL1030	Introduction to Alternating Current Circuits	1/2	3	120
TCA- Electronics Helper I			7	255
IMEL1210	Introduction to Semiconductors	1/2	3	120
IMEL1220	Fundamentals of Transistor Circuits	1/2	3	120
IMEL 1230	Basic Digital Circuits	1/2	3	120
TCA- Electronics Helper II			16	615
IMEL1240	Advanced Digital Circuits	1/2	3	120
CPTR1000	Introduction to Computers	1/1	2	45
JOBS2450	Job Seeking Skills	2/0	2	30
TOTAL Industrial Marine Electronics Technology Core Courses			23	810
CTS: Electronics Technician			23	810
IMEL1100	Industrial Marine Hydraulics I	1/2	3	120
IMEL1120	Industrial Marine Hydraulics II	1/2	3	120
IMEL1130	Industrial Marine Electronics I	1/2	3	120
IMEL1140	Industrial Marine Electronics II	1/2	3	120
CTS: Industrial Marine Electronics Technician (Core + IMEL 1130 & 1140)			29	1050
CTS: Industrial Marine Electronics & Hydraulics Technician (Core + IMEL 1100, 1120, 1130, & 1140)			35	1290
IMEL1150	Remotely Operated Vehicle I	1/2	3	120
IMEL1160	Remotely Operated Vehicle II	2/2	4	160
IMEL1170	Remotely Operated Vehicle III	1/2	3	120
TD: Industrial Marine Electronics Technology (Core +IMEL 1100, 1120, 1130, 1140, 1150, 1160, & 1170)			45	1690
Electives:				
IMEL 2100	Two-Way Receivers	0/6	6	180
IMEL 2120	Two-Way Transmitters	0/6	6	180
IMEL 2130	Two-Way Computer Applications	4/2	6	120
CTS: Two-Way Technician (Core + IMEL 2100, 2120, 2130) *Upon completion of the Core and IMEL 2100, 2120, & 2130; students will be eligible to take the FCC Examination for licensure.			41	1290
The following courses may be substituted for course requirements with approval from the College's Chief Academic Officer:				
SPPR 2991	Special Projects I	0/1	1	30
SPPR 2993	Special Projects II	0/2	2	60
SPPR 2995	Special Projects III	0/3	3	90
SPPR 2996	Special Projects IV	3/0	3	45
SPPR 2998	Special Projects V	1/0	1	15