CWO 713X (SURFACE ENGINEERING)

DESIGNATOR DESCRIPTION

(Surface Engineering Technicians) Serve as technical specialist in ship's machinery, electrical power, lighting, interior communications systems, maintenance of optical equipment, instruments, and office machinery; supervises, trains, and evaluates personnel in the operation and maintenance of main propulsion systems (gas turbine, diesel, and steam), refrigeration systems, fuel systems, and shipboard electrical systems; analyzes problems with equipment and operations, finds solutions, and takes corrective action; has exercised supervision and training, personnel policies, legal procedures, leadership and management techniques, and communication methods; writes reports and provides technical advice; applies many elements of total quality management and quality assurance; uses computerized management information systems.

They may serve as, but are not limited only to serving as, engineering, electrical, and ship repair officers, or in various operational and staff billets.

YRS COMM SVC	SEA	CAREER PATTERN SHORE
15 **CWO5** 11	Fourth At-Sea Division Officer Tour	Department Head/OIC/Division Officer INSURV/ATG/Ship Repair Facility USCG License (3rd, 2nd, 1st, Chief)
BS or MA Degree **CWO4** 7	Third At-Sea Division Officer Tour	Department Head/OIC/Division Officer INSURV/ATG/Ship Repair Facility USCG License (3rd, 2nd, 1st, Chief)
AA or BS Degree **CWO3** AQDs Sea: LB2, LA9, LF6/LF7, VX1, or LC1/LC2/LC3 AQDs Shore: CD3/CD4 3	Second At-Sea Division Officer Tour	Department Head/OIC/Division Officer INSURV or ATG USCG License (3rd, 2nd, 1st, Chief)
CWO2 AQDs: LB2, LA9, VX1	First At-Sea Division Officer Tour	