
WORK PROCESSES

Program Name: METROLOGY TECHNICIAN O*Net: 17-3027.00
Dept: O68

Description: Metrology Technicians perform comprehensive industrial measurement surveys of the ship, its systems, and components. Technicians use Metrology equipment for precision setting, alignment, and dimensional verification of structures, weapons systems, machinery, and propulsion systems. Electronic Accuracy Control Plans are used to predict and reduce the variability of fabricated, machined and assembled products through the various stages of the shipbuilding and manufacturing processes.

	APPROXIMATE HOURS
A. CRAFT TRAINING	3,300
(On-the-job, first two years of apprenticeship in one of the maintenance, construction or manufacturing trades.)	
B. USE AND CARE OF TOOLS AND EQUIPMENT	2,520
1. Total Station	
2. Laser Tracker	
3. Photogrammetry	
4. CMM Arm	
5. Laser Scanning	
C. INDUSTRIAL MEASUREMENT TOOLS AND EQUIPMENT	2,420
1. Planning documents	
2. 3D Data collection software	
3. Photogrammetry bundling software	
4. Analysis	
5. Reporting	
D. WORK CONTROL TEAM	160
1. Scheduling tools	
2. Records Management System	
E. RELATED TECHNICAL INSTRUCTION	1,600
Total Hours	10,000

SAFETY IS THE FIRST PRIORITY IN ALL APRENTICESHIP PROGRAMS AND, AS THE SPONSOR'S PRIMARY RESPONSIBILITY, MUST BE TAUGHT AND PRACTICED CONTINUOUSLY IN ALL ON-THE-JOB WORK PROCESSES