

Work Processes Schedule

NONDESTRUCTIVE TESTER (PROFESSIONAL & KINDRED)		
RAPIDS: 1010N	O*NET/SOC: 17-3029.00	REVISION DATE: 03/2015
<p>Inspect components for defects using optic, dye penetrant, magnetic particle, eddy current, ultrasonic, radiographic and other nondestructive inspection methods and materials. Sets-up, adjusts, calibrates,uses, operates and maintains nondestructive inspection equipment. Performs a variety of sample analysis. Uses and interprets technical data in determining inspection requirements.</p>		
<p>Applicable Ratings/MOS USMC MOS 6033, 6062, 6092 USCG DC USN AF, AM, AWF, HT</p>		
<p>Related Instruction Any trade related schools/courses totaling 144 hours.</p>		
<p>Additional Requirement AM, AWF, AFCM - Must hold NEC 7225 HT - Must hold NEC: 4942, 4943 or 4944 or NEC 4922</p>		
		Total Hours: 2000
Skill	Description	Hours
A	<p>FUNDAMENTALS</p> <p>(Demonstration of knowledge required in all areas.)</p> <ol style="list-style-type: none"> 1. Safety Precautions Fundamentals 2. First Aid And Rescue 3. Quality Assurance Administration Fundamentals 4. Quality Assurance Program Fundamentals 5. Levels Of Control Fundamentals 6. Hearing Conservation Program Fundamentals 7. Hazardous Material Control And Management-(HMC&M) Program Fundamentals 8. Respiratory Protection Program Fundamentals 9. Sight Conservation Program Fundamentals 10. General Administration (Log, Record And File Maintenance) 11. Technical Administration (Publications And Technical Manuals) 12. Logistics 13. Shop Fundamentals 	500
B	<p>EQUIPMENT</p> <p>Demonstrate safe operation and upkeep of shop equipment. The Equipment list is representative of tools and machinery typically found in the Work-Center associated with this trade.</p> <ol style="list-style-type: none"> 1. Cleaner Ultrasonic 2. Caliper, Vernier, 12 Inch 3. Densitometer, Transmission, 0-4.0 Density Range 4. Enclosure, Radiographic, Lead Lined, 10 X 10 X 8 Ft, Floor 5. Eddy Current Tester, Portable 6. Film Viewer 7. Radius Gage Set 8. Gamma Radiography Equipment 9. Lamp, Blacklight 10. Laser Optical Tube Inspection System (Lotis) 11. Magnetic Particle Kit, Light Duty, Portable 12. Magnetic Particle Testing, Wet, Shop Fix Magnaflux, Mdl Y-5 13. Magnetic Particle Testing, Heavy Duty, Dry, Portable 14. Micrometer Set 15. Bevel Protractor 16. Ultrasonic Film Processing Tank 17. Flaw Detector, Pulse Echo, Portable 18. Portable Computer, Pulse Echo, Ultrasonic Flaw Detector 19. X-Ray Machine 	500
	PERFORM INSPECTIONS	

(Demonstration of knowledge required in all areas.) Total Hours: 1000

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1. Perform Visual/Dimensional Inspections
2. Magnetic Particle Testing (Non-Nuclear)
 - Dry (Yoke And Probe) Mt Inspection · Wet Fluorescent Mt Inspection
3. Liquid Penetrant Inspection (Non-Nuclear)
 - Group I · Group II · Group III · Group IV · Group V · Group VI · Group VII
4. Ultrasonic Inspections
 - Silverbraze Inspection · Thickness Inspection · Eddy Current Inspection · Shear Wave Inspection · Ultrasonic Tube Inspection
5. Radiographic Testing (Non-Nuclear)
 - Radiographic Operator · Radiographic Interpretation
6. Laser Optic Inspections
 - Laser Optic Tube Inspection

1000