

U.S. Department of Labor Employment and Training Administration Office of Apprenticeship Training, Employer and Labor Services (OATELS) Washington, D.C. 20210	<u>Distribution:</u> A-541 Headquarters A-546 All Field Tech A-547 SAC; Lab. Com	<u>Subject:</u> New Apprenticeable Occupation – Calibrator (Military) <u>Code:</u> 200
Symbols: DNIP/JMCD		Action: Immediate

PURPOSE: To inform Office of Apprenticeship Training, Employer and Labor Services (OATELS), Bureau of Apprenticeship and Training (BAT) staff of a new apprenticeable occupation.

Calibrator (Military)
O*NET Code: 51-9061.03
AIMS Code: 1031
Training Term: 2 Years (4000 Hours)
Type of Training: Time - based

BACKGROUND: Request for apprenticeability consideration for this occupation was submitted by Peggy Johnson NNAP, on behalf of the Department of the Navy.

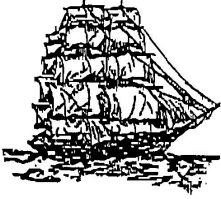
A suggested work process schedule and outline of related instruction is attached.

This occupation will be added to the Bureau's list of recognized apprenticeable occupations. For further information contact ATR John B. Mc Dowell.

ACTION: State Directors, please share this information with our SAC partners where appropriate.

Attachment

WORK PROCESSES SCHEDULE FOR THE TRADE CLASSIFICATION OF



CALIBRATOR
DOT CODE 710.381-034



Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following areas. Actual work time must be recorded in the Work Experience Log.

<u>Skill Area</u>	<u>Hours</u>		
<p>A. <u>FUNDAMENTALS</u> (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 	<p><u>250</u></p>		
<p>B. <u>EQUIPMENT</u></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> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 1. Fluke Document Process Calibrator Model 702 2. Calibrator, Meter 1040C 3. Charging Rig, Nitrogen 4. Gage, Pressure 5. Generator, Signal 6011A 6. Multimeter, Digital 8840A 7. Resistor, Decade 1433W 8. Simulator, Thermocouple 1100 </td> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 9. Tester, Live Pressure 350 10. Calibrator, Pressure, Low Range 1127-2 11. Thermo Unit, Portable, 100 To 1200 Deg. F., 3604-1-101 12. Thermo Unit, Portable, -40 To 240 Deg. F., 3605-1-101 13. Calibration Panel, High Pressure, Hydraulic, Wall </td> </tr> </table>	<ol style="list-style-type: none"> 1. Fluke Document Process Calibrator Model 702 2. Calibrator, Meter 1040C 3. Charging Rig, Nitrogen 4. Gage, Pressure 5. Generator, Signal 6011A 6. Multimeter, Digital 8840A 7. Resistor, Decade 1433W 8. Simulator, Thermocouple 1100 	<ol style="list-style-type: none"> 9. Tester, Live Pressure 350 10. Calibrator, Pressure, Low Range 1127-2 11. Thermo Unit, Portable, 100 To 1200 Deg. F., 3604-1-101 12. Thermo Unit, Portable, -40 To 240 Deg. F., 3605-1-101 13. Calibration Panel, High Pressure, Hydraulic, Wall 	<p><u>250</u></p>
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<p>C. <u>CALIBRATE TEMPERATURE GAGES/SWITCHES</u></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 1. Calibrate Temperature Switches 2. Calibrate Thermometers 3. Calibrate Remote Thermometers </td> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 4. Temperature Calibration Team Qual (FFG-7 Class) </td> </tr> </table>	<ol style="list-style-type: none"> 1. Calibrate Temperature Switches 2. Calibrate Thermometers 3. Calibrate Remote Thermometers 	<ol style="list-style-type: none"> 4. Temperature Calibration Team Qual (FFG-7 Class) 	<p><u>250</u></p>
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<u>Skill Area</u>	<u>Hours</u>
D. <u>CALIBRATE LOW PRESSURE GAGES/SWITCHES</u>	<u>400</u>
<ol style="list-style-type: none"> 1. Calibrate Simplex Pressure Gage 2. Calibrate Duplex Pressure Gage 3. Calibrate Vacuum Gage 4. Calibrate Low Pressure Switch 5. Calibrate Compound Low Pressure Gage 6. Calibrate Differential Low Pressure Gage 7. Low Pressure Calibration Team Qual (FFG-7 Class) 	
E. <u>CALIBRATE HIGH PRESSURE GAGES/SWITCHES</u>	<u>425</u>
<ol style="list-style-type: none"> 1. Calibrate High Pressure Gage 2. Calibrate High Pressure Switch 3. High Pressure Calibration Team Qual (DD-963/DDG-993/CG-47 Class) 4. High Pressure Calibration Team Qual (FFG-7 Class) 	
F. <u>CALIBRATE TRANSDUCERS</u>	<u>250</u>
<ol style="list-style-type: none"> 1. Calibrate Low Pressure Transducer 2. Calibrate High Pressure Transducer 3. Calibrate Temperature Signal Conditioner 4. Calibrate Vacuum Transducers 5. Calibrate Differential Pressure Transducers 6. Transducer Calibration Team Member 	
G. <u>CALIBRATE METERS</u>	<u>1300</u>
<ol style="list-style-type: none"> 1. Calibrate Fuel Control Console Meters 2. Calibrate Damage Control Console Meters 3. Calibrate Propulsion And Auxiliary Control Console Panel Meters 4. Calibrate Electric Plant Control Console Panel Meters 5. Calibrate 400 Hz Converters And Switchboards 6. Calibrate Fwd And Aft IC Misc. Meters 7. Calibrate Degaussing Switchboard Meters 8. Calibrate Aux 1 Fuel Console And Evap Salinity Cell Meters 9. Calibrate #1,2,3 Switchboard Panel Meters 10. Calibrate Propulsion Local Control Console 11. Calibrate Shipboard Battery Chargers 12. Calibrate Uninterruptable Power Supply Panel Meters 13. Meter Team Member Qual 14. Calibrate PCC, DCC, ACC, LOP, AOSC/LOS, And LOSIP Panel Meters (FFG-7 Class Ships) 15. Calibrate 400 Hz Converter And Switchboard Panel Meters (FFG-7 Class Ships) 16. Calibrate #1,2,3 Switchboard Panel Meters (FFG-7 Class Ships) 17. Calibrate EM And IC Shop Misc. Meters And Test 18. Panels SWBDS Panel Meters (FFG-7 Class Ships) 19. Calibrate Uninterruptable Power Supply Panel Meters (FFG-7 Class Ships) 20. Calibrate Degaussing Panel Meters (FFG-7 Class Ships) 21. Calibrate EPCC Panel Meters (FFG-7 Class Ships) 22. Meter Team Qual (FFG-7 Class Ships) 23. Calibrate Ballast Control Console Meters (LSD-41 Class Ships) 	

COURSE: C-198-3034

TITLE: INTERMEDIATE LEVEL CALIBRATION OF PHYSICAL/DIMENSIONAL TEST AND MEASURING SYSTEMS (PHASES B/D)

LOCATION AND CDP:
NAMTDS NORTH ISL, 548Z
NAMTD NORFOLK, 157M
NAMTD NORTH IS, 157L
NAMTDS NORFOLK, 459X

COURSE SECURITY: UNCLAS

MASL NUMBER:

NAMTDS NORTH ISL P141835

LENGTH: 19 DAY(S) P, 16 DAY(S) M

CLASS OF SCHOOL/COURSE: G1

SKILL IDENTIFIER FOR WHICH TRAINED: NONE

PURPOSE:

Upon completion of this course, Navy and Marine Corps technicians will have sufficient knowledge/theory to perform, under limited supervision, Intermediate Level Calibration of Physical/Dimensional Test and Measuring Systems in an intermediate maintenance environment.

SCOPE:

This course covers:

1. Physical/Dimensional Calibration Course Indoctrination
2. Pressure and Vacuum Measurement/Inflator Instrument Calibration
3. Torque/Force/Tension Measurement Instrument Calibration
4. Dimensional Measurement Instrument Calibration.

COURSE: E-198-6670

TITLE: INTERMEDIATE LEVEL CALIBRATION AND WORKCENTER

LOCATION AND CDP:

HSL 41, 878M

NAMTDS NORTH ISL, 567J

COURSE SECURITY: UNCLAS

LENGTH: 136 DAY(S) P, 113 DAY(S) M

CLASS OF SCHOOL/COURSE: C1

SKILL IDENTIFIER FOR WHICH TRAINED: NEC 6673

PURPOSE:

To train Navy/Marine Corps and civilian technicians with the necessary knowledge to effectively manage the Metrology Automated System for Uniform Recall and Reporting (MEASURE), proper use of authorize physical/dimensional calibration standards, fundamentals of test equipment maintenance, management procedures of NAVAIR PME BRANCH/WC-670 and sufficient knowledge of avionics corrosion control.

SCOPE:

Provides indoctrination, shipboard aircraft firefighting, NAMTG formal classroom training and PME Branch Workcenter 670 Management Procedures (E-5 and above).

COURSE: A-652-0501

TITLE: SURFACE SHIPBOARD GAUGE CALIBRATION OPERATOR 1200LB

LOCATION AND CDP:
FTC SDIEGO, 0607
ATG MIDPAC, 253J
FTC NORVA, 208C

COURSE SECURITY: UNCLAS

MASL NUMBER:

FTC SDIEGO P145443

LENGTH: 4 DAY(S) P, 4 DAY(S) M

CLASS OF SCHOOL/COURSE: FI

SKILL IDENTIFIER FOR WHICH TRAINED: NONE

PURPOSE:

To provide training for certification of shipboard personnel as gauge calibration technicians, required to support a field calibration activity IAW NAVSEAINST 4734.1.

SCOPE:

This course provides training on gauge calibration program for 1200 LBS system ships personnel. Pressure calibration concepts and principles. Operational principles and calibration using the King Nutronics 3657. Temperature calibration concepts and principles. Operational principles and calibration using the King Nutronics 3604 and King Nutronics 3605.

COURSE: A-652-0500

TITLE: SURFACE SHIPBOARD GAUGE CALIBRATION OPERATOR 600/NUC

LOCATION AND CDP:
FTC SDIEGO, 0605
ATG MIDPAC, 253H
FTC NORVA, 0606

COURSE SECURITY: UNCLAS

LENGTH: 5 DAY(S) P, 5 DAY(S) M

CLASS OF SCHOOL/COURSE: FI

SKILL IDENTIFIER FOR WHICH TRAINED: NONE

PURPOSE:

To provide training for certification of shipboard personnel as gauge calibration technicians, required to support a field calibration activity IAW NAVSEAINST 4734.1.

SCOPE:

This course provides training on gauge calibration program for 600 LBS system, Gas Turbine Ships and surface nuclear personnel. Pressure calibration concepts and principles. Operational principles and calibration using Data Metrics 1127-2 and King Nutronics 3666-2K; 3666-10K. Temperature calibration concepts and principles. Operational principles and calibration using King Nutronics 3604 and 3605. Torque calibration concepts and principles. Operational principles and calibration using consolidated devices torque tester Model #100/500 OI, #250/2000 PI and 1000 PF.

