

## IAM HOURLY CLASSIFICATIONS

### LODGE 912

<b>CLASSIFICATION TITLE</b>	<b>RATE</b>	<b>CODE</b>
Toolmaker	25	E4511
Electronic Maintenance	25	E1103
Instrumentation Mechanic	24	E4504
Thin Film Mechanic	24	E4505
Special Products Mechanic	24	E4506
Air Supply Operator Turbo	23	E8730
Diversified Operator	23	E5700
Instrument Repair	23	E1039
Electrical Maintenance	23	E1107
Machine Maintenance	23	E1212
Mechanical Maintenance	23	E1229
Diversified Fabricator	23	E5805
Industrial Equipment Mechanic	22	E1231
Welder Diversified	22	E5709
Machinist	22	E4401
Painter Sign	22	E1271
General Maintenance	22	E1264
Cutter Grinder	21	E2924

Heat Treat Diversified	21	E6602
Locksmith	20	E1218
Bench Repair Parts	19	E5020

## **TOOLMAKER E4511 M-25**

Perform the overall assembly of jigs, fixtures, tools, dies, gages, and any machining necessary to assure its successful function. Responsible for the complete development of a tool, die, gage, jig, fixture, or other device from blueprints, rough sketches or verbal instructions into a workable device; performing any necessary layout, development, machining, or other related tasks necessary to accomplish a successful result. Troubleshoot, diagnose, and correct operational deficiencies in mechanical fixtures, special mechanization, and special machines, performing all necessary work, including machining to correct malfunctions. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience as a journeyman machinist or toolmaker. Must take assessment.

### **DISPLACEMENT TO:**

Machinist, E4401, M22

Bench Repair Parts, E5020, M19

## **ELECTRONIC MAINTENANCE E1103M-25**

Apply a practical knowledge of electric/electronic theory, locate reasons for malfunction and effectively repair root causes of same in all types of electric/electronically controlled manufacturing equipment. Examples being, but not limited to, machine tools, integrated manufacturing quality control equipment, balance machines, welders, lasers, etc. Included in this process is new equipment such as the above, after technical information is complete and procedures and maintenance norms are established.

Test and replace faulty components such as vacuum tubes, solid-state devices, relay logic components, motivators, feedback devices, transducers, etc., using various test and measuring devices. These devices include but are not limited to, tube testers, VOM's and VTVM's, digital meters of various types, recorders, oscilloscopes, etc.

After effecting the repair, functionally test (with operator assistance if required) and perform the initial "check-out" of the repaired equipment to insure proper operation of the equipment.

Performing all repairs to equipment covered shall include planned maintenance, rebuilding of components and assemblies, layout of electric panels, makeup of electrical/electronic circuits for equipment testing purposes, touch up of painted surfaces disturbed during repair, etc., maintain records and perform related duties.  
6/11/90

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### **MINIMUM EXPERIENCE: 2 years**

Experience diagnosing trouble and performing complicated repair work on all types of electric and electronically controlled machine tools/manufacturing equipment. Written testing required.

## **INSTRUMENTATION MECHANIC E4504 M-24**

Manufacture, fabricate and install pressure and temperature sensors, perform machining, polishing, brazing and welding operations; layout and apply plasma spray and flame spray in the application of ambient thru high temperature strain gages. Troubleshoot, diagnose and repair instrumentation. Work to very close tolerances from drawings, sketches and verbal instructions. Maintain records and perform related duties.  
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**MINIMUM EXPERIENCE:** 2 years

Experience on a variety of machine tools including lathes and mills. Industrial electrical experience is desirable. Must read blueprints. Must take test.

## **THIN FILM MECHANIC E4505 M24**

Perform processes required to apply thin film sensors to engine hardware including: substrate surface evaluation, polishing, plasma reactive cleaning, photo fabrication of sensors, pan masking, photo exposure, chemical etching, sensor electrical resistance trimming, and jumper lead assembly and attaching. Will operate cryogenic vacuum systems, high-voltage RF power supplies, ion-beam milling systems, plasma reactors, thermo-compression bonding systems, ultra violet exposure systems, and sputter-deposition systems. Will also provide process diagnosis and solution including plasma operating parameters selection, film deposition distribution mapping and evening, film structure growth analysis, and in-process parameter modification for corrected or acceptable graded films. Processes will be performed in a CLASS 10,000 clean room per Federal Standard 2096. Will work to very close tolerances from drawings, sketches, and verbal instructions.

Much work with delicate precision which requires an extremely high level of intrinsic manual dexterity evidenced by very steady and precise visual-motor coordination skills through a stereo-microscope. Maintain records and perform related duties. 6/ 11/90

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### **MINIMUM EXPERIENCE: 2 years**

Experience with photo fabrication of electronic circuitry or with application of high temperature strain gages requiring precise visual-motor coordination skills with the use of a stereo-microscope; or, prior experience related to thin film depositions in various sputtering apparatus. Industrial electronic experience or electronic technical schooling is desirable.

Any Instrumentation Mechanic with High Temperature Strain Gage Certification will be considered.

## **SPECIAL PRODUCTS MECHANIC E4506 M-24**

Perform process-oriented work required to produce special purpose materials from raw materials, and to fabricate shapes and apply them to engine components. Processes are mechanical, metallurgical and chemical in nature and include machining, measurements, fabrication and assembly. Incumbents will be expected to become familiar with, and, capable of operating all major equipment within the area and will work with technicians in the performance of normal operations, which also includes development of improved processing. After establishing suitable proficiencies, incumbents may also be required to provide process diagnosis and aid in establishing process improvements for long term process cost control and quality growth. Some operations require respirators and/or other devices for the safeguard of operator health and incumbents must be willing to undertake these operations and follow all established work practices. Specific equipment and operational details are sensitive and not to be discussed except with accepted applicants. Maintain records and perform related duties. 6/11/90

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### **MINIMUM EXPERIENCE: 3 years**

Has experience setting up and operating all types of machine tools **including CNC/NC equipment** or in sheetmetal layout, fabrication and development of non-planer shapes including operation of fabrication and machine tools. (Candidates with 3 years of acceptable sheetmetal experience may substitute an acceptable **CNC/NC machine tool course including lathes and mills for machining experience.**) **Has experience with programmable equipment controllers and basic computer skills.** Must be able to read blueprints and use precision measuring instruments. Past experience operating large power-driven rolling mills, calendars, etc., or with metallurgical or polymeric processing is desirable. This position requires security clearances for all active programs before coming on job. (3/28/06) Revised

## **AIR SUPPLY OPERATOR TURBO E8730M-23**

Operate singly, parallel or in multistage, high speed, high voltage, turbo air moving equipment, including necessary auxiliary equipment, using either manual controls or computer based automatic systems. Supply large volumes of controlled air for specific tests at exacting pressures and temperatures to conform to cell requirements. Operate auxiliary air-drying and refrigerating equipment and integrated large volume heating equipment. Perform normal adjustments, calibration, lubrication and periodic and incidental maintenance required to keep equipment in operating condition. Interpret and record performance data. Work from written or oral instructions. Is responsible for the appearance of equipment and area including cleaning and painting as required. Maintain records and perform related duties. 6/11/90

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### **MINIMUM EXPERIENCE: 2 years**

Experience operating large (3000 HP & up) power generating equipment, such as compressor and marine drives. Experience operating computer driven equipment is desirable.

## **DIVERSIFIED OPERATOR E5700M-23**

Conduct pilot line and repair operations/procedures using standard or prototype equipment in the application of thermal spray, diffusion coating, welding, brazing, chemical processing, and laser fabricating techniques and related procedures which are being developed for the manufacture or repair of engine hardware. Related procedures include cutting, benching, fitting, weld prepping, cleaning, masking, powder blending and mixing, and machine setup with the use of power assisted machinery and hand tools. Certified for welding and thermal spraying operations to applicable military and company specifications. Work from written or verbal instructions. Is knowledgeable of and complies with environmental, health, safety and fire protection procedures applicable to assigned work area and equipment. Maintain records and perform related duties. 6/11/90

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### **MINIMUM EXPERIENCE: 2 years**

Experience in all types of hand TIG welding on a variety of metals. Ability to work to blueprints and use shop measuring instruments. Must pass welding test preparatory to certification.

## **INSTRUMENT REPAIR E1039M-23**

Diagnose and repair all aspects of instrumentation, including but not limited to: electronic controls, meters and other measurement devices, and recorders, both electronic and mechanical. Maintain flow controllers, I/O devices, feedback loops and hybrid pneumatic/electronic type instrumentation.

Layout, maintain, modify, install and troubleshoot a wide variety of complex boiler, potable and non-potable water controls and various process systems controls. Work with/from complicated drawings, prints, diagrams, and written or oral instructions. Maintain records and perform related duties. 6/24/91

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**MINIMUM EXPERIENCE:** 2 years

Experience in the utilities/water industry field, troubleshooting, repairing and replacing a wide variety of complex boiler, potable and non-potable water and fuel system instrumentation.

## **ELECTRICAL MAINTENANCE E1107M-23**

Layout, maintain, modify, locate malfunction, adjust and repair all types of complicated electrical facilities and heating, ventilating and cooling installations throughout the plant. Make up and install electrical/electronic circuits of processing and testing installations, switchboards and panel boards, engine and accessory test stands, etc., including test stand and equipment buildup. Maintain master and building sub-stations. Service, oil, clean, and maintain gas pressure on existing heating, ventilating, and air-cooling installations, and install new equipment. Touch up painted surfaces disturbed during fabrication, repair, etc. Work from complicated drawings, prints, diagrams, and written or oral instructions. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience in installation and maintenance of heavy industrial electrical facilities. Heating and air conditioning repair experience is desirable.

### **THIS CLASSIFICATION INCORPORATED:**

M22 Refrigeration. & Air Conditioning Repair E1227

M22 Electrician E1105

## **MACHINE MAINTENANCE E1212 M-23**

Apply a practical knowledge of mechanics to mechanisms and fluid power systems, diagnose trouble, plan and perform repairs of a complicated nature on a variety of equipment, such as, but not limited to, machine tools, integrated manufacturing cells, quality control equipment, balance machines, etc. Locate reasons for abnormal equipment operation and effectively repair root causes of those problems. Performance of repairs shall include planned maintenance; touch up of painted surfaces disturbed during repair and other work, which is supplemental to the primary activity but necessary to successfully complete the total requirements of the job.

Set up and operate various machine tools to make complicated parts.

After affecting the repair, functionally test (with operator assistance as required) and perform the initial "check out" of the repaired equipment to insure proper operation. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience diagnosing trouble, planning and performing complicated mechanical mechanisms repair, setting up and operating various machine tools to make replacement parts and in the interpretation of assembly drawings and blueprints.

## **MECHANICAL MAINTENANCE E1229M-23**

Maintain and repair all facilities and mechanical equipment throughout the plant, including hoists, cranes, pumps, boilers, tanks, air, water and fuel piping, exhaust systems, etc. Install or rearrange machine tools and equipment. Fabricate, buildup and erect test facility and related equipment. Operate a variety of machines, sheetmetal tools, and hand tools, including touch-up painting and incidental work with wood as required. Work from blueprints, sketches or verbal instructions. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Facility maintenance experience such as installing or rearranging machine tools and equipment; fabricating and erecting all types of steel structures, or installing and maintaining low and high pressure piping systems. Must read blueprints and pass welding tests preparatory to certification.

### **THIS CLASSIFICATION INCORPORATED:**

M22 Sheetmetal Maint. E1260

M22 Pipefitter E1223

M22 Millwright E 1221

### **DISPLACEMENT TO:**

Diversified Fabricator, E5805, M23

## **DIVERSIFIED FABRICATOR E5805 M23**

Layout, shear, form, bench, develop, construct, fabricate, fit, assemble, and repair a variety of complicated sheet metal fabrications, models, mock-ups, forms and templates working to close tolerances from blueprints, sketches, verbal Instructions, etc. Work with metals, plastics, composites, wood, using all type of wood and metalworking equipment. Make calculations, operate all types of sheet metal machinery and hand, and power tools, perform necessary welding and brazing on non engine hardware, and incidental touch up painting. Maintain records and perform related duties. 6/20/194

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**MINIMUM EXPERIENCE:** 2 years

Experience In sheet metal layout and fabrication including the use of sheet metal machinery and hand power tools. Must read blueprints and use precision measuring instruments. Machine tool operation, tube-bending and assembly experience desirable.

## **INDUSTRIAL EQUIPMENT MECHANIC E1231 M-22**

Diagnose trouble, repair, perform major overhaul, maintenance and service on gasoline, diesel electric, propane, and battery powered equipment such as: fork trucks, stock-pickers, jack-stackers, pallet trucks, tow tractors, golf carts, vertical lifts, scrubbers, sweepers, stationary engines, automobiles, trucks and other types of vehicles. Repair hydraulic equipment. Operate all garage repair and checking equipment. Plan work procedure using charts, technical manuals, and experience. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience diagnosing trouble and performing complicated repair work on a variety of material handling equipment and motor vehicles.

## **WELDER DIVERSIFIED E5709 M-22**

Setup and perform all types of hand and machine welding including oxyacetylene, arc, atomic, oxyhydrogen, etc., to fabricate, repair or rework a wide variety of ferrous and non-ferrous material and/or parts. Cut material to size using burning processes, metal spray and braze. Certified in welding. Maintain records and perform related duties.  
6/11/90

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**MINIMUM EXPERIENCE:** 1 year

Experience in all types of hand welding including oxyacetylene, arc, oxyhydrogen, etc., on a variety of ferrous and non-ferrous materials. Must pass welding test preparatory to certification.

## **MACHINIST E4401 M-22**

Set up and operate all types of machine tools to perform machining operations of the most complicated nature in the making of components of jigs, fixtures, tools, dies, gages, test equipment and product parts and their work or modification. Perform any necessary layout in connection with the above machining jobs, from blueprints, sketches or verbal instructions. Construct special fixtures as needed to accomplish machining operations as described above. Assemble component parts when such parts have been machined or made into subassemblies by the machinist, and the parts are related and require transitional machining operations. Will perform related bench and hand work. Maintain records and perform related duties. 6/11/90

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### **MINIMUM EXPERIENCE: 2 years**

Has experience operating all types of machine tools, including setup. Must read blueprints and use precision measuring instruments. Must take test and demonstrate machine tool setup and operation competency.

### **DISPLACEMENT TO:**

Bench Repair Parts E5020, M19

## **PAINTER- SIGN E1271 M-22**

Layout, sketch, and paint from sketches, copy, and/or verbal instructions, all types of signs, lettering, charts, posters, etc. Include making screen, stencils and scenic or pictorial views. Work with crayon, water or oil colors, airbrush, blend colors and perform hand painting. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience on all types of signs, lettering, charts, posters, etc. including silk screens and stencils.

## **GENERAL MAINTENANCE E1264M-22**

Plan layout and perform a wide variety of construction repair and remodeling including carpentry, dry wall, general painting, masonry, plaster, grout, and cement work on all interior and exterior facilities and equipment throughout the plant. Estimate project requirements and determine proper amounts of materials to be used. Work from blueprints, sketches, and written or verbal instructions. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Has General Maintenance experience including carpentry plus painting or masonry type work.

### **THIS CLASSIFICATION INCORPORATED:**

M21 Carpenter E1263

M21 Painter E1270

M21 Mason E1220

## **CUTTER GRINDER E2924 M-21**

Setup and operate a wide variety of precision grinding machines including multi-axis NC/CNC grinding equipment for sharpening all types of cutting tools and broaching cutters. Set, position and troubleshoot malfunctioning broach cutters. Perform layout-grinding operations to meet blueprint requirements. Perform grinding operations on cutting tools of an intricate nature including end mills, drills, reamers, inserts, back spot facer, dovetails, mills, special form tools and other cutters as required. Use all types of precision gages, comparators, and related measuring equipment. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience on variety of precision grinding machines for broach or tool/cutter grinding. Must read blueprints.

**THIS CLASSIFICATION INCORPORATED:**

M21 Tool & Grinder E2922

M21 Broach Grinder E2923

## **HEAT TREAT – DIVERSIFIED E6602M-21**

Heat treat, anneal, harden, etc., all types of materials, tools, forgings, dies, parts, etc., from instructions, etc. Operate furnaces, gas cracking equipment, controlling instruments, etc., quench parts, etc., direct helpers. Maintain records and perform related duties as required. 6/11/90

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**MINIMUM EXPERIENCE:** 2 years

Experience operating heat treat equipment, gas-cracking equipment, controlling instruments, etc.

## **LOCKSMITH E1218M-19**

Install new, fix or replace locks on office furniture and toolboxes. Fix and maintain the Grand Master portion of the Best lock system for building and door locks with tumblers. Make keys and keep records for the Grand Master lock system and office furniture and equipment. Perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 1

year

Experience as a locksmith

## **BENCH REPAIR PARTS E5020 M-19**

Layout and rework to proper dimensions a variety of aircraft gas turbine parts or assemblies from drawings, sketches, written or verbal instructions, operating a variety of machine tools such as mills, drill presses, surface and hand grinders, saws, etc. Perform a variety of rework operations such as: dimensional changes, re-tapping holes, repairing nicks or other minor defects, setting new studs and inserts, etc. May use a diverse group of hand tools. Maintain records and perform related duties. 6/11/90

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**MINIMUM EXPERIENCE:** 1 year

Experience on drill presses, hand and surface grinders, saws, and a diverse group of hand tools. Must read blueprints.

