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Course Information Letter ---- M105

BASIC MECHANICAL MAINTENANCE SKILLS M105

This course is directed toward the most fundamental of skills including: Basic Mechanical Tools and Fasteners, Power Tools, Shop Math, Use of Blueprints/Drawings, and Job Planning and related safety issues. This course is very advantageous to new personnel in the mechanical maintenance field.

(Recommended Prerequisites - None)

Benefits

1. Safety is objective #1. Learn the safe way to use hand and power tools.
2. Learn the proper use of metal fasteners for different applications.
3. The ability to read blueprints and drawings will aid in the basic skills of a maintenance mechanic.
4. Learn basic shop math that will assist you in performing tasks in the both maintenance and planning.

OBJECTIVES: At the completion of this course the participant will be able to:

1. Identify and properly use hand tools
2. Perform the safe operation of hand tools
3. Demonstrate the proper use of metal fasteners used in a plant
4. Perform the proper selection and use of power tools
5. Understand the safe operation of power tools
6. Understand the basic math needed to perform maintenance including: Addition, Subtraction, Multiplication, Division, and Algebraic Equations
7. Identify symbols used on blueprints and drawings
8. Demonstrate the ability to read piping diagrams and machine prints

COURSE DATES/LOCATION/FEE

Contact HPC offices for specific needs. Call Stephen Parker at 941.747.7733, x130 or email him at stparker@hpcnet.com.

COURSE OUTLINE

- Day 1 - Basic Hand Tools
- Day 2 - Power Tools
- Day 3 - Shop Math
- Day 4 - Blueprint and Drawings
- Day 5 - Plant Safety

Basic Mechanical Maintenance Skills – M105

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FREQUENTLY ASKED QUESTIONS

- Will HPC Technical Services bring this course to our location for our personnel only? YES, call or email Stephen Parker, stparker@hpcnet.com for a price quotation.
- Will HPC Technical Services customize the presentation at our site to suit our particular needs? Yes.
- Is HPC Technical Services' textbook available for purchase as a reference document? Coming Soon
- What is the cost for HPC Technical Service to deliver this course at our location? Well, of course that can vary, but generally speaking, if you're planning on having 6+ attend, when considering your T&L, it is to your advantage to perform the course at your plant (office). You gain from the customization and price.
- Can HPC Technical Services provide "Technical Assistance" in conducting functional checkouts or troubleshooting problems? Yes we can. Call or contact Harold Parker, hparker@hpcnet.com for our rate sheets and any further information required.

WHAT YOU WILL RECEIVE:

1. 1 copy of HPC Technical Services' textbook, Basic Mechanical Maintenance Skills.
2. A "Certificate of Completion" with 3.2 CEUs, authorized for issue by the International Associate of Continuing Education/Training.

POWER PLANT MAINTENANCE CERTIFICATION:

This course is a requirement for Power Plant Maintenance Certification. Those who attend this course are automatically qualified to take HPC Technical Services' Certification Examination. This examination is offered at no additional expense to the participant. An 80% passing grade is required. The examination length will not exceed 2-hours. Those who complete this examination will receive a revised "certificate of completion" that recognizes this accomplishment along with two-copies of a "To Whom It May Concern" letter that states their accomplishment. (Two copies are provided, one for the participants' employer and one for the participants' personal file.)

Consult HPC's website, www.hpcnet.com, for detail on this certification program.

INSTRUCTOR (S):



Dan Anderson is the primary instructor for this course. Dan started his career in the US Navy as a Boiler Technician. After his discharge Dan was a civilian instructor for the US Navy at Great Lakes Naval Training Center. While there Dan instructed Navy personnel in the four-phase steam cycle including balance of plant equipment. In 1990 Dan returned to Minnesota and received his Minnesota State Chief A Engineers license. After a few years in the position as Chief Boiler Engineer For Green Giant Co. and Maintenance Manager for Minnesota Energy, Dan went to work for Hutchinson Utilities Commission in Hutchinson, Minnesota. His position there was Operator 1. His operational responsibilities included GE LM 6000 Combined Cycle, GE Frame 5 Simple Cycle, and a GE Frame 3 Combined Cycle. He also had operations of 6 Diesel Engines for power production. Dan joined HPC Technical Services, June 2001. His main area of instruction is Gas Turbine/Combine Cycle Fundamental, Steam Turbine/Generator Fundamentals, Mechanical Maintenance Courses, and The Boiler Training. Dan currently holds a Chief A Engineers License for Minnesota, A Chief NIULPE Certificate, NIULPE Instructor and Examiners Certificate, Chief ASOPE Certificate, and is a Member of ASME.

Ray Militello has approximately 30-years experience maintaining steam turbine generator equipment. He has worked as a Field Representative for GE Installation & Service Department, was employed as a Supervisor - Maintenance and Maintenance Planning with Southern California Edison Company. Ray also worked as Manager, Maintenance Training Services with HPC Technical Services for 4-years before deciding to become independent. Now Ray instructs specific turbine maintenance courses for HPC, depending upon availability. He has been instructing HPC's Steam Turbine Overhaul course for the last 6-years. Ray resides in Bradenton FL.