JOINT APPRENTICESHIP & TRAINING COMMITTEE
OF
SHEET METAL WORKERS' LOCAL 20, GARY AREA
AND
NORTHERN INDIANA SHEET METAL CONTRACTORS ASSOCIATION

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MEMORANDUM

TO: All Local 20 Members

FROM: Joint Apprenticeship & Training Committee

RE: JOURNEYMAN UPGRADE NIGHT CLASSES

We have revised the scheduling of classes as well as the list of classes we are offering. These classes will NOT be offered in the Spring as we will have different classes to offer then. Classes are limited to fifteen (15) participants and no class will begin with less than eight (8) people. The following classes will be offered this time:

____	SERVICE 2	15 weeks	Thursdays beginning September 4th
____	BASIC AUTOCAD	8 weeks	Thursdays beginning September 11th
____	GMAW (MIG)	8 weeks	Wednesdays beginning October 9th
____	SMAW (Stick)	8 weeks	Wednesdays beginning October 9th

A brief description of these classes is given on the back page.

Please make your selections and return this form to us by **August 29, 2014**. If you make multiple selections, please rank them in the order of preference. If you want more than one class, please let us know this also. If you have any questions, call Bob Hostinsky or Kyle Melnyk at 219-764-1900.

NAME: _____ PHONE: _____

ADDRESS: _____

SERVICE 2 (TROUBLESHOOTING): For those students who have taken the basic service class or those who have some service experience. Will focus on a thorough breakdown of all the basic components of residential split systems, as well as start-up procedures and refrigerant recovery.

AUTOCAD: For the beginner. Learn the basic commands and fundamentals of AutoCAD 2008. Progress of the class is subject to the ability of the students and will gear towards HVAC duct drawings. Basic computer skills are a requirement.

GMAW: Includes the basic fundamentals and a lot of hand-on training and practice in Gas Metal Arc Welding (MIG). Materials welded will be primarily carbon steel but may also include Stainless Steel and Aluminum. The beginning of the class will allow the participants to practice, going through a series of exercises, and the class will finish with a welding procedure review, practice time, and an AWS D9.1 Certification test.

SMAW: Includes the basic fundamentals and a lot of hand-on training and practice in Shielded Metal Arc Welding (Stick). The beginning of the class will allow the participants to practice, going through a series of exercises with several different electrodes, and the class will finish with a welding procedure review, practice time, and an AWS D1.1 Certification test.

Classes offered next Spring:

LOAD CALCULATIONS	8 weeks	AUTOCAD II	6 weeks
DUCT SIZING/DESIGN	6 weeks	MECHANICAL CODES	6 weeks
ADV. SERVICE	15 weeks	GTAW (TIG)	8 weeks
		FCAW (Flux Core)	8 weeks
AIR BALANCING	15 weeks	WATER BALANCING	15 weeks
SERVICE 3	15 weeks		

SERVICE 2 (TROUBLESHOOTING): For those students who have taken the basic service class or those who have some service experience. Will focus on a thorough breakdown of all the basic components of residential split systems, as well as start-up procedures and refrigerant recovery.

SERVICE 3 (COMMERCIAL): Service 1 and 2 are a prerequisite for this class. Class will be similar to Service 2, with the focus now on commercial and rooftop units. Additional focus on 3 phase wiring and advanced wiring diagrams and controls.

CCS/BENCHMARK: Using a program designed by iTi and specifically used by Sheet Metal Workers. This class focuses on Detailing, Field Measuring, Shop Drawings, and Project Management. Experience in AUTOCAD is mandatory. After completion of the class, students will be able to take a Certification test.

DUCT SIZING/DESIGN: This class will begin with airflow basics and the effects of static and velocity pressures, friction and dynamic losses, and aspect ratios. Will also include comprehensive uses of a Ductulator and SMACNA Duct Construction Standards. It will briefly touch on the effects of liners, ductboard, and phenolic board duct construction.

AIR BALANCING: The class will focus on the theories, equipment, math and commonly used formulas, reports, and actual hands-on experiences of balancing. The classes will be about a 50/50 split between classroom and shop. Upon completion of both the air and water balancing classes, a nationally recognized balancing certification test is available.