



**RELATED INSTRUCTION OUTLINE OF THE  
SHEET METAL WORKER CURRICULUM**

**ISBN-13: 978-0-13-609964-2**

*(3<sup>RD</sup> Edition)*

<b>SHEET METAL LEVEL 4</b>			
<b>Module #</b>	<b>Module Name</b>	<b>Module Objectives</b>	<b>Perf. Profile</b>
1	04401-09 Shop Production and Organization	Introduces trainees to the important production, organization, planning, and control functions that occur in a sheet metal shop. Emphasizes optimization of processes and accurate estimating for competitive bidding. Discusses project planning techniques, principles of efficient shop layout and materials flow, the critical path method, and the roles and relationships of shop personnel.	No
2	04402-09 Air Testing and Balancing	Trainees learn how to balance an air distribution system so that the right amount of air is correctly distributed at the proper velocities and returned to the heating and cooling units. Reviews the tools and techniques used for adjusting fans, volume dampers, registers, and grilles. Provides proper techniques for duct leakage testing.	Yes
3	04403-09 Introduction to Welding, Brazing, and Cutting	Introduces trainees to the important techniques and proper operation of equipment used for welding, brazing, and cutting. Emphasizes safety and awareness of hazards involved. Students practice welds in a variety of positions and perform a basic braze.	Yes
4	04404-09 Fume and Exhaust System Design	Reviews the codes and specifications pertaining to fume and exhaust system design for safe workspaces. Instructs trainees in selecting the appropriate materials for fume or exhaust system components and to identify the different types of hoods and applications for each.	No
5	04405-09 Fabrication Four - Comprehensive Review	Provides a comprehensive review of parallel line, radial line, and triangulation development methods for laying out sheet metal patterns. Trainees practice laying out and fabricating selected sheet metal fittings using these methods.	Yes
6	04406-09 Introductory Supervisory Skills	Teaches the basic skills required to supervise personnel, including leadership, team building, communication and motivation. Discusses gender and cultural issues. Emphasizes principles of project planning and management, including problem solving and decision making. Presents case studies for student participation.	No