



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

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(3RD Edition)

| SHEET METAL LEVEL 1 | | | |
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| Module # | Module Name | Module Objectives | Perf. Profile |
| 1 | 04101-08 Introduction to the Sheet Metal Trade | Summarizes the history and development of the sheet metal trade, explains the benefits of apprenticeship training, and identifies career opportunities in the trade. | Yes |
| 2 | 04102-08 Tools of the Trade | Describes the hand and power tools used in the sheet metal trade, including layout tools and cutting, bending, and forming machines. Includes safety and maintenance guidelines. | Yes |
| 3 | 04103-08 Introduction to Sheet Metal Layout and Processes | Introduces parallel line development, radial line development, and triangulation. Covers selection and use of layout, hand, and machine tools. Discusses how to transfer patterns, and how to cut, form, and assemble parts. | Yes |
| 4 | 04104-08 Trade Math One | Builds on trainees' basic math skills to solve trade-problems. Covers calculations using denominal volume calculations, English-metric system converts basic geometry, and calculation of stretch-outs. | Yes |
| 5 | 04105-08 Fabrication One-Parallel Line Development | Covers the steps involved in using the parallel line development method to lay out fittings and includes step-by-step procedures for selected fittings. | Yes |
| 6 | 04106-08 Installation of Ductwork | Addresses ductwork assembly, use of different types of sealants, using lifts, and installation of ductwork. Describes the types of fasteners (screws, nuts, bolts, and rivets), and supports used in an air distribution system. Discusses proper spacing of hangers, load ratings, and installation of hangers and support systems. | Yes |
| 7 | 04107-08 Installation of Air Distribution Accessories | Describes how air distribution accessories, such as louvers, dampers, and access doors, function as part of an air distribution system. Includes installation guidelines and checklists. | Yes |
| 8 | 04108-08 Insulation | Describes how to install fiberglass blanket, foam, and pipe insulation using approved adhesives and fastening techniques. Also includes the fabrication and installation of fitting covers and preformed fitting covers. | Yes |
| 9 | 04109-08 Architectural Sheet Metal | Provides instruction in how to lay out and fabricate sheet metal components of a roof drainage system. Includes flashing, gutters, and downspouts. | Yes |