

AP PL 716 Firestop/Fireproofing Procedures (1.5)
 1 hour lecture - 1½ hours laboratory
Note: Cross listed as AP DL 716
 Emphasis on the correct methods, technical skills and firestop materials required to complete a Firestop System. Firestopping is a complete fire containment system designed to prevent the passage of fire, smoke and hot gasses from one side of a rated wall/ceiling assembly to another.

AP PL 717 Plastering Equipment Application (1.5)
 1 hour lecture - 1½ hours laboratory
 Instruction in the materials, application methods and techniques for operating a plaster pump. Students will complete a three-coat work application to industry standards. Emphasis on proper pump set-up, washout and maintenance.

AP PL 718 Plastering Equipment (1.5)
 1 hour lecture - 1½ hours laboratory
 Terminology, components and operating procedures for plastering equipment and machinery. Machine maintenance, safety, troubleshooting procedures, limits of operation and communication practices will be covered. Students will inspect and properly set up and clean a plastering pump.

AP PL 797 Plasterer Topics (.5-4)
 Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Prerequisite: Indentured apprentice to the Carpenters Joint Apprenticeship and Training Committee for Southern California
 Topics in Plasterer. See Class Schedule for specific topic offered. Course title will designate subject covered.

Sheet Metal (AP SM)

A five-year apprenticeship program. Applicants for this program should be directed to the San Diego Sheet Metal Joint Apprenticeship and Training Committee, 4596 Mission Gorge Place, San Diego, CA 92120. Telephone (619) 265-2758.

A.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP SM 701 Core I	4
AP SM 702 Core II	4
AP SM 703 Core III	4
AP SM 704 Core IV	4
AP SM 705 Sheet Metal Welding	3
AP SM 706 Plans & Specifications	4
AP SM 709 Foreman and Project Management Training	4
AP SM 710 Architectural Application	4
AP SM 711 HVAC I	4
AP SM 712 HVAC II	4
APWE 710 Sheet Metal Work Experience	16
TOTAL UNITS	55

COURSE OFFERINGS

AP SM 701 Core I (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: Indentured apprentice to the San Diego Sheet Metal Joint Apprenticeship and Training Committee
 An introduction to the basic principles, processes, drawings, materials and practices used in the sheet metal industry.

AP SM 702 Core II (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 701
 A continuation of basic sheet metal processes as well as an introduction to simple sheet metal forming processes.

AP SM 703 Core III (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 702
 An introduction to intermediate sheet metal processes demonstrating job layout, architectural details and construction techniques with problems of unusual complexity and difficulty.

AP SM 704 Core IV (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 703
 A continuation of intermediate processes with problems of unusual difficulty and complexity.

AP SM 705 Sheet Metal Welding (3)
 1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 704
 An introduction to the basic principles and methods of gas and arc welding used in the sheet metal industry. Includes codes, standards, welding theory and the practical application using prescribed welding procedures and equipment.

AP SM 706 Plans and Specifications (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 705
 An introduction to the language and organization of plans and specifications for sheet metal projects. Topics will include architectural, structural, mechanical and electrical drawings as well as how to write and implement a change order to plans and specifications.

AP SM 709 Foreman and Project Management Training (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 712
 Overview of the knowledge, skills and abilities required to effectively perform as a foreman and project manager in the sheet metal industry.

AP SM 710 Architectural Application (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 709
 Overview of the knowledge, skills, and abilities of advanced architectural project performance.

AP SM 711 HVAC I (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 706
 An introduction to the physical components and systems of a basic HVAC system as well as hands-on techniques for startup and basic system troubleshooting.

AP SM 712 HVAC II (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in AP SM 711
 Designed to build on the principles of basic HVAC system design and installation. Students will develop a better understanding of how a modern HVAC system is designed and functions. Field installation, plans and specifications, commissioning, project management and basic LEED principles will also be covered.

AP SM 797 Sheet Metal Topics (.5 - 4)
 Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Prerequisite: Indentured apprentice to the San Diego Sheet Metal Joint Apprenticeship and Training Committee
 Topics in Sheet Metal. See Class Schedule for specific topic offered. Course title will designate subject covered.