

Palomar College Catalog 2009-2010

Apprenticeship Training (AP)

Acoustical Installer, Carpentry, Drywall/Lather, Electrician, Inside Wireman, Plasterer, Residential Wireman, Sheet Metal, Sound and Communication Systems, Sound Technician

Contact Occupational & Noncredit Programs for further information.
(760) 744-1150, ext. 2600
Office: AA-138

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Acoustical Installer
- Carpentry
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Residential Wireman
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Acoustical Installer
- Carpentry
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Residential Wireman
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

PROGRAMS OF STUDY

A program for the training of apprentices, consisting of full-time, on-the-job employment plus related classroom instruction.

A CERTIFICATE OF ACHIEVEMENT and/or JOURNEYPerson TRADE CERTIFICATE will be awarded to students for each program successfully completed. Students who wish to obtain an Associate in Arts Degree may do so by fulfilling the general graduation requirements in addition to the completion of the apprenticeship courses.

A program is maintained for the training of apprentices in the trades as listed. Students who wish to become apprentices should appear before the appropriate Joint Apprenticeship Committee. Training consists of full-time work on-the-job supplemented by related classroom instruction. All students entered in the apprenticeship work experience program are expected to enter APWE 110, 111, 112, 113, or 114. A maximum of 16 units, Pass/No Pass only, may be earned in Cooperative Work Experience Education, not to exceed 8 units each semester.

Students whose work or attendance is not satisfactory may be dropped from the program by the College, or other corrective measures may be taken by the Joint Apprenticeship Committee. The College grants academic credit for the successful completion of the training program.

Upon completion of the training program, journey person trade certificates and college achievement certificates are awarded at a special completion ceremony.

The final digit in the course number indicates that period of apprenticeship.

SAFETY GLASSES - Education Code 32030-32034 requires that safety glasses be worn in those classes where eye damage might occur. Students in such classes will be so informed by their instructors. Glasses are available at the college bookstore.

Acoustical Installer (AP AC)

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP DL/AP PL/ AP AC 201 Orientation	1.5
AP DL/AP PL/ AP AC 202 Safety and Health Certifications	1.5
AP DL/AP PL/ AP AC 203 Printreading	1.5
AP DL/AP PL/ AP AC 204 Advanced Printreading	1.5
AP AC 205 Acoustical Ceilings	1.5
AP AC 206 Standard Acoustical Grids	1.5
AP AC 207 Suspended Ceilings	1.5
AP AC 208 Soffits	1.5
AP AC 209 Prefab/Sound Panels	1.5
AP AC 210 Concealed/Glue-up/Staple-up System	1.5
AP AC 211 Compasso	1.5
AP AC 212 Metal Pan and Security Systems	1.5
AP WE 112 Drywall/Acoustical Work Experience	16
TOTAL UNITS	34

Carpentry (AP C)

A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP C 201 Orientation	1.5
AP C 202 Safety and Health Certification	1.5
AP WE 111 Carpentry Work Experience	16
Electives (Select 14 courses)	
AP C 203 Printreading	1.5
AP C 204 Advanced Printreading	1.5
AP C 205 Foundation and Flatwork	1.5
AP C 206 Flatworks	1.5
AP C 207 Tilt-Up Panel Construction	1.5
AP C 208 Wall Forming	1.5
AP C 209 Gang Forms/Columns	1.5
AP C 210 Patented Forming Systems	1.5
AP C 211 Architectural Concrete	1.5
AP C 212 Column Forms	1.5
AP C 213 Beam and Deck Forming	1.5
AP C 214 Basic Commercial Framing	1.5
AP C 215 Advanced Commercial Framing	1.5
AP C 216 Commercial Floor Framing	1.5
AP C 217 Basic Stairs	1.5
AP C 218 Advanced Stairs	1.5
AP C 219 Exterior Finish Details	1.5
AP C 221 Basic Roof Framing	1.5
AP C 223 Basic Metal Framing	1.5
AP C 225 Transit Level/Laser	1.5
AP C 226 Bridge Construction	1.5
AP C 227 Stair and Ramp Forming	1.5
AP C 228 Stair Trim	1.5
AP C 229 Cabinet Millwork and Assembly	1.5
AP C 230 Cabinet Installation	1.5
AP C 235 Molding and Trim	1.5

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AP C 236	Plastic Laminates	1.5
AP C 237	Door and Door Frames	1.5
AP C 239	Door and Door Hardware	1.5
AP C 245	Commercial Fixtures	1.5
AP C 246	Showcases and Loose Store Fixtures	1.5
AP C 247	Basic Suspended Scaffold	1.5
AP C 248	Advanced Suspended Scaffold	1.5
AP C 249	Basic Systems Scaffold	1.5
AP C 250	Intermediate Systems Scaffold	1.5
AP C 251	Advanced Systems Scaffold	1.5
AP C 252	Basic Frame Scaffold	1.5
AP C 253	Intermediate Frame Scaffold	1.5
AP C 254	Advanced Frame Scaffold	1.5
AP C 255	Basic Tube & Clamp Scaffold	1.5
AP C 256	Scaffold in Confined Spaces	1.5
AP C 257	Specialty Scaffold Applications	1.5
AP C 258	Scaffold Reshoring	1.5
AP C 259	Scaffold - Printreading	1.5
AP C 260	Scaffold - Advanced Printreading	1.5
AP C 261	Basic Wall Framing	1.5
AP C 262	Intermediate Stairs	1.5
AP C 263	Advanced Roof Framing	1.5
AP C 264	Abutments	1.5
AP C 265	Rigging	1.5
AP C 266	Solid Surface	1.5
AP C 267	Panelized Roof	1.5
AP C 268	Fitting Rooms/Partitions	1.5
AP C 269	Exit and Electrical Security Devices	1.5
AP C 197	Carpentry Topics	1.5

TOTAL UNITS **40**

Drywall/Lather (AP DL)

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
AP DL/AP PL/		
AP AC 201	Orientation	1.5
AP DL/AP PL/		
AP AC 202	Safety and Health Certifications	1.5
AP DL/AP PL/		
AP AC 203	Printreading	1.5
AP DL/		
AP PL 205	Basic Lathing	1.5
AP DL 206	Framing Ceilings and Soffits	1.5
AP DL 207	Basic Metal Framing	1.5
AP DL 208	Framing Suspended Ceilings	1.5
AP DL 209	Framing Curves and Arches	1.5
AP DL 210	Light Gage Welding - AWS - A	1.5
AP WE 112	Drywall/Acoustical Work Experience	16

Electives (Select 3 courses)

AP DL/AP PL/		
AP AC 204	Advanced Printreading	1.5
AP DL 211	Light Gage - L.A. City Certificate	1.5
AP DL 212	Basic Hand Finishing	1.5
AP DL 213	Drywall Acoustical Ceilings	1.5
AP DL 214	Door/Door Frames	1.5
AP DL/		
AP PL 215	Exterior Insulation Finish Systems (EIFS)	1.5
AP DL/		
AP PL 216	Firestopping Procedures	1.5
AP DL 217	Free-Form Lathing	1.5
AP DL 218	Machine Taping	1.5
AP DL 219	Hand Taping	1.5
AP DL 220	Gypsum Board Application and Finish Trim	1.5

AP DL 221	Advanced Hand Tool Finishing	1.5
AP DL 222	Advanced Machine Tool Finishing	1.5
AP DL 223	Advanced Lathing	1.5
AP DL 224	Ceiling and Soffit Finishing	1.5
AP DL 225	Wet Wall Finishes	1.5
AP DL 226	Reinforced Substrate Installations	1.5
AP DL 227	Decorative Trims and Textures	1.5

TOTAL UNITS **34**

Electrician (AP E)

A five-year apprenticeship program. Applications for Riverside/San Bernardino/Mono/Inyo counties should apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training. Committees, 1855 Business Center Drive, San Bernardino, CA 92408. Telephone: (909) 890-1703.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
AP E 101	Electrical Trade/Industry/DC/Conduit	4
AP E 102	Electrical Theory/Practice/Blueprint Reading	4
AP E 103	Inductance/Capacitance Theory	4
AP E 104	Transformers/Code Calculations/Conduit	4
AP E 105	Electronic/Industrial Blueprints	4
AP E 106	Grounding/Electrical Services/Connection	4
AP E 107	Motor Control/Pilot Devices/Starters	4
AP E 108	Digital Electronics	4
AP E 109	Mgmt/Alarms/Testing/Wiring	4
AP E 110	Programmable Logic Controllers	4
AP WE 113	Electrician Work Experience	16

TOTAL UNITS **56**

Inside Wireman (AP IW)

A five-year apprenticeship program. Study of technical course development and delivery techniques for the electrical trade, utilizing classroom-proven techniques. The student will familiarize him/herself with classroom management, testing and assessment techniques, curriculum development and material presentation based on industry-standard and college level instructional methodologies. Applications for this program should be directed to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, Suite D, San Diego, CA 92123. Telephone (858) 569-6633, ext. 111.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
AP IW 101	Introduction to the Electrical Trade	4
AP IW 102	Electrical Theory, Practice and Blueprint Reading	4
AP IW 103	Inductance and Capacitance Theory	4
AP IW 104	Transformer, Motors, and Motor Controls	4
AP IW 105	Special Electrical Systems	4
AP IW 106	Specialized Electrical Applications	4
AP WE 113	Electrician Work Experience	16

Electives (Select 16 units)

AP IW 107	Advanced Electronics I	4
AP IW 108	Advanced Electronics II	4
AP IW 109	Advanced Motor Controls	2
AP IW 110	AutoCAD	4
AP IW 111	Electric Motor Drives	4
AP IW 112	Introduction to Computers	4
AP IW 113	Electrical Project Supervisor	4
AP IW 114	Electrical Certification Preparation	4
AP IW 115	Low Voltage	4
AP IW 116	Photovoltaics	4
AP IW 117	Service Equipment	2
AP IW 118	Test Equipment	2
AP IW 119	Welding	2
AP IW 120	Instructional Leadership I	4
AP IW 121	Programmable Logic Controllers	4

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AP IW 122	Fire/Life Safety Systems	4
AP IW 123	Instrumentation	4
AP IW 124	Instructional Leadership II	4
AP IW 125	Building Automation Systems	4
AP IW 126	Electrical Construction Practices	4
AP IW 197	Inside Wireman Topics	2 - 4

TOTAL UNITS **56**

Plasterer (AP PL)

A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP DL/AP PL/ AP AC 201	Orientation 1.5
AP DL/AP PL/ AP AC 202	Safety and Health Certifications 1.5
AP DL/AP PL/ AP AC 203	Printreading 1.5
AP DL/AP PL/ AP AC 204	Advanced Printreading 1.5
AP DL/ AP PL 205	Basic Lathing 1.5
AP PL 206	Basic Plastering 1.5
AP PL 207	Exterior Plastering 1.5
AP PL 208	DOT and Screed Techniques 1.5
AP PL 209	Interior Plastering 1.5
AP PL 210	Finish Applications 1.5
AP PL 211	Ornamental Plastering 1.5
AP PL 212	Plastering Replications 1.5
AP PL 213	Theme Plastering 1.5
AP PL 214	Architectural Wall Finishing 1.5
AP DL/ AP PL 215	Exterior Insulation Finish Systems (EIFS) 1.5
AP DL/ AP PL 216	Firestopping Procedures 1.5
AP WE 114	Plasterer Work Experience 16

TOTAL UNITS **40**

Residential Wireman (AP RW)

A three-year apprenticeship program. Applicants for San Diego/Imperial counties should apply to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, Suite D, San Diego, CA 92123. Telephone: (858) 569-6633, ext. 111.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP RW 101	Introduction to Residential Wiring Concepts 4
AP RW 102	Electrical Theory, Practice & Blueprint Reading 4
AP RW 103	AC/DC Electrical Theory and Applications 4
AP RW 104	Residential Certification Preparation 4
AP RW 105	Home Technology Integrator I 4
AP RW 106	Home Technology Integrator II 4
AP WE 113	Electrician Work Experience 16

TOTAL UNITS **40**

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.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP SM 101	Core I 4
AP SM 102	Core II 4
AP SM 103	Core III 4
AP SM 104	Core IV 4
AP SM 105	Sheet Metal Welding 3
AP SM 106	Plans & Specifications 4
AP SM 107	Construction Plan Problem Solving 4
AP SM 108	Introduction to Basic Refrigeration 4
AP SM 109	Foreman and Project Management Training 4
AP SM 110	Architectural Problem Solving 4
AP WE 110	Sheet Metal Work Experience 16

TOTAL UNITS **55**

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP SC 101	Intro to Sound/Communication Trade Industry 4
AP SC 102	Electrical Theory and Practices DC 4
AP SC 103	Electrical Theory and Practices AC 4
AP SC 104	Semiconductor Electronics 4
AP SC 105	Intro to Digital Electronics and Signaling Devices 4
AP SC 106	Management/Alarms/Codes/Circuits 4
AP WE 113	Electrician Work Experience 16

TOTAL UNITS **40**

Sound and Communication Systems Installer (AP SC)

A three-year apprenticeship program. Applicants for this program should be directed to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committees, 1855 Business Center Drive, San Bernardino, CA 92408. Telephone: (909) 890-1703.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP SC 101	Intro to Sound/Communication Trade Industry 4
AP SC 102	Electrical Theory and Practices DC 4
AP SC 103	Electrical Theory and Practices AC 4
AP SC 104	Semiconductor Electronics 4
AP SC 105	Intro to Digital Electronics and Signaling Devices 4
AP SC 106	Management/Alarms/Codes/Circuits 4
AP WE 113	Electrician Work Experience 16

TOTAL UNITS **40**

Sound Technician (AP SC)

A four-year apprenticeship program. Students will work in the field during the day and attend class in the evenings. Each apprentice is paid for field work with regularly scheduled pay increases based on required work hours and completion of classroom instruction. Upon completion of this program, students will receive a certificate of completion from the California Division of Apprenticeship Standards and Journeyman Sound Technician status in the I.B.E.W. All students must be indentured Sound Technical apprentices to be eligible for the course. Interested applicants from San Diego/Imperial counties should apply to the San Diego Electrical Training Trust, 4675 Viewridge Avenue, Suite D, San Diego, CA 92123. Telephone: (858) 569-6322, extension 111.

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A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
AP SC 101 Intro to the Sound/Communication Trade Industry	4
AP SC 102 Electrical Theory and Practices DC	4
AP SC 103 Electrical Theory and Practices AC	4
AP SC 104 Semiconductor Electronics	4
AP SC 105 Introduction to Digital Electronics	4
AP SC 106 Management/Alarms/Codes/Circuits	4
AP SC 107 Life Safety and Security System Applications	4
AP SC 108 Specialized Systems and Supervision Techniques	4
APWE 113 Electrician Work Experience	16
TOTAL UNITS	48