

**APPLIED TECHNOLOGY**  
**Industrial Technology/Power Generation Option**  
**Associate in Applied Science**

**General Requirements:** Total Hours: 60 • Minimum GPA: 2.0

**Program Description:** OG&E employees who have successfully completed the coursework and job performance measures (2,080 hours) at the OG&E Energy Corporation in the areas of Plant Operation, Instrumentation and Control, Plant Electricians and Plant Mechanics are eligible to enroll under this program. Upon completion of their apprenticeship program, they may transfer those hours into the Associate of Applied Science Applied Technology Industrial Technology/Power Generation Option at Redlands Community College.

**GENERAL EDUCATION REQUIREMENTS ..... 18 hours**

Area	Min. Hours	Courses
Communications	6	ENGL1113 English Composition I ENGL1213 English Composition II* <b>or</b> ENGL2033 Technical Writing & Reporting
Social Science	6	HIST 1483 U.S. History to 1877 <b>or</b> HIST 1493 U.S. History, 1877 to Present POLS 1113 U.S. Government
Math	3	MATH 1513 College Algebra <b>or</b> MATH 1483 Contemporary College Math
Selected General Ed Requirements	3	CMSC 1113 Computer Concepts and Applications <b>or</b> CMSC 1223 Business Applications Software

**TECHNICAL-OCCUPATIONAL SPECIALTY COURSES ..... 42 hours**

Students must complete the certified course work and job performance measures (2080 hours) at the OG&E Energy Corporation in the areas of Plant Operations, Instrumentation and Control, Plant Electricians and Plant Mechanics at the following levels

**Apprenticeship Level C-1, C-2 and C-3**

Safety—PPE and First-Aid, Fall Suppression, Worker Right To Know/HAZCOM, Enviro-chemical, Confined Space, Basic Shop Equipment, Prints & Drawings, Clearance Procedures, Fuel Systems, SAP Notifications & Confirmation Notes, Ash Removal Systems, Circulating Water Systems, Steam Cycle, Compressed Air Systems, Turbine Auxiliaries, Generator, Plant Electrical Systems, Water Treatment, Plant Instrumentation, Fire Protections Systems, Hand Signals, Electrical Circuit Basics.

**Apprenticeship Level B-1 and B-2**

Coal System, Pulverizes and Feeders, Ash Systems, Closed Cooling Water System, Stator Coiling Water System, MCC Breaker System, Motor Meager, Pump/Motor Rigging & Removal, Small Motor (25 HP or less) Overhaul, Tubing and Fittings, Metal Work and Welding, Main Turbine, Generator and Turbine Lube Oil Systems, Hydrogen Seal Oil System, Pump Seal Inspection, Heat Exchanger Inspection and Repair, Calibrate Gauge, Test & Repair Pressure Switches.

**Apprenticeship Level A-1 and A-2**

Control Loops, Piping, Condensate System, Feedwater System, Steam System, Closed Cooling Water System, Fuel System-Gas/Oil, Fuel System-Coal, Plant/Service Air System, Instrument/Control Air Systems, Emergency Generator, Waste Water Treatment System, Circulating Water System, Calibrate a Transmitter, Freeze Protection System, Centrifugal Pump, Test and Calibrate Positioners & Actuators, Lube Oil Systems, Generator/Electrical System, Test & Repair Pneumatic & Electronic Solenoid, Small Valve Refurbishment, Troubleshoot and Repair a Piston Actuator, Pump Bearing Inspection.

**Students are required to pass certification examinations for each of the above levels before credit can be transcribed.**