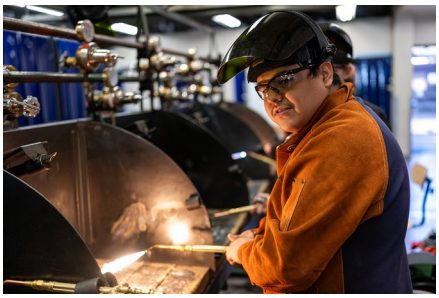
Industrial & Trade Technology Department

The Santa Rosa Junior College Industrial & Trade Technology (ITT) Department provides career education across four programs: Advanced Transportation and Logistics (ATL), Advanced Manufacturing Technology (AMT), Heating, Ventilation, Air Conditioning and Refrigeration (HVACR), and Welding. These programs are central to SRJC's mission preparing students for high-demand careers in Sonoma County and the Bay Area. Facilities include dedicated shops and labs on the Santa Rosa and Petaluma campuses, with recent investments in modern equipment and technology to align with industry trends. Over the past six semesters, course fill rates have ranged from 94% to 111%, underscoring strong student demand and the department's role in meeting regional workforce needs.

Welding



In 2020, the Welding Program, located in Lounibos Hall, embarked on a multi-year process to replace legacy equipment with modern welding technology. The program purchased and installed new welding booths and new multi-purpose welding machines with Perkins and Strong Workforce Program funding. It is now expanding its fabrication lab with new advanced laser welding technology and additional fabrication equipment.

A second full-time Welding faculty member was hired in 2023, increasing instructional capacity. Last semester, 21 students earned their American Welding Society D1.1 certification, significantly boosting their employability in the welding and fabrication sectors. These exams were provided at no cost thanks to industry sponsorship, reflecting strong partnerships that support student success. Looking ahead, the program will host its third annual High School Welding Contest in Spring 2026, with participation from multiple counties and prizes donated by local employers, both strengthening recruitment and showcasing SRJC's facilities to the community.

Advanced Transportation & Logistics (ATL)

In Fall 2024, the Automotive Technologies Program and the Diesel Equipment Technology Programs merged into the Advanced Transportation & Logistics Program (ATL). This merger keeps SRJC at the vanguard of the transportation industry, which now involves more electric vehicles, advanced driver assistance systems (ADAS), and autonomous vehicles. The ATL program features a shared foundational curriculum leading to multiple certificates and degrees, providing students with flexibility in their training pathways. Since the merger, ATL's course fill rates are between 96% - 99%.

The ATL program is accredited by the Automotive Service Engineers (ASE) Education Foundation, meeting standards for Master Automobile Service Technology. Students are prepared to take ASE certification exams and may also pursue credit via Credit for Prior Learning (CPL) using their existing ASE industry credentials, military transcripts, or a portfolio review.

Facility improvements underway in Lounibos include the installation of new automotive lifts, including specialized equipment for electric vehicles, and ADA accessibility upgrades. Local employers serve on an active ATL advisory committee, providing input on curriculum, and continue to hire SRJC graduates. Given strong enrollment and program growth, ATL is actively recruiting additional associate faculty to expand its course offerings.

Advanced Manufacturing Technology (AMT)

Over the last eight years, the AMT Program has transformed the machine shop in Lounibos Hall into a cutting-edge advanced manufacturing lab facility, with over $1.5 million in equipment upgrades funded by Perkins and Strong Workforce Program through SRJC Career Education. Students now train on manual and computer numerical control (CNC) mills and lathes; advanced metrology (measurement) equipment; computer-aided design and computer-aided manufacturing (CAD/CAM) software; 3D printers; and laser cutters. This technology positions graduates to meet workforce needs in aerospace, electronics, medical device, robotics, agricultural technology, and other industries.

Industry engagement is a cornerstone of the AMT Program. Local employers such as Keysight Technologies, Medtronic, and OMW Corporation actively engage with the program through advisory input, internships, recruitment, and equipment donations. In September, the President/CEO of OMW Corporation (precision manufacturing for aerospace and other industries) visited the program to recruit new machinists, a testament to the direct pipeline between SRJC training and regional industry.

Heating, Ventilation, Air Conditioning & Refrigeration (HVACR)

Launched in Fall 2025, the HVACR Program opened with more than 90 enrollments across three full sections. The first course, HVAC 101, is offered fully online with interactive simulation-based training, ensuring accessibility for working students and zero textbook costs. Subsequent courses will be offered both online and in person in the new HVAC lab at the Construction Training Center on the Petaluma campus.

The HVACR Program prepares students for careers in the residential HVAC industry. Students learn how residential HVACR systems and their components operate; the fundamentals of airflow, refrigeration, ventilation, combustion, and thermodynamics; and the tools and equipment used for installation, maintenance, and repair work. The program emphasizes heat pump technology, which is replacing gas-fired furnaces in California. Students also learn about jobsite safety, career opportunities, codes and regulations, and industry certification requirements for residential HVACR technicians.

Contact Information

For additional information about the Industrial & Trade Technology (ITT) Department, please contact Dean Benjamin Goldstein at bgoldstein@santarosa.edu.