WELDING

Due to safety concerns caused by the use of potentially hazardous equipment, students must be 18 years of age or older to enroll in Welding courses. Please see www.rop.santacruz.k12.ca.us for welding courses open to minors. Note: A mandatory materials fee of $45.00 for each course taken will be due during the first two weeks of the semester.

W 150 Arc Welding
Introduces basic arc welding skills with an emphasis on safety, oxy-acetylene cutting, shielded metal arc welding, and GMAW (MIG) welding techniques. Must be at least 18 years old. Materials fees apply. Recommended Preparation: Eligibility for MATH 154.

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<th>Section</th>
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W 151 TIG Welding
Presents basic training in the flat and out-of-position welding of steels, aluminum, and stainless steel with the GTAW process. Must be at least 18 years old. Materials fees apply. Recommended Preparation: Eligibility for MATH 154.

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W 152 Advanced Welding
Continues training in arc and gas welding in various positions; introduces MIG welding, TIG welding, flux cored arc welding, and flame cutting. Must be at least 18 years old. Materials fees apply. Prerequisite: W 150 or W 151 or equivalent skills. Recommended Preparation: Eligibility for MATH 154.

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W 152A Advanced Arc Welding
Presents continued advanced training in SMAW (Stick) welding techniques, focusing on the 3G and 4G positions with low hydrogen electrodes, enabling students to pass sample AWS welding code tests. Must be at least 18 years old. Materials fees apply. Prerequisite: W 152 or equivalent skills. Recommended Preparation: Eligibility for MATH 154.

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W 152B Advanced MIG Welding
Continues advanced training in GMAW (MIG) welding techniques, focusing on all positions and sheet steel gages, in preparation for light gage fabrication and body-fender repair applications. Must be at least 18 years old. Materials fees apply. Prerequisite: W 152 or equivalent skills. Recommended Preparation: Eligibility for MATH 154.

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W 152C Advanced TIG Welding
Continues advanced training in GTAW (TIG) welding techniques, focusing on all position welding of sheet gauge materials in steel, aluminum and stainless steels. Must be at least 18 years old. Materials fees apply. Prerequisite: W 152 or equivalent skills. Recommended Preparation: Eligibility for MATH 154.

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W 155 Ornamental Ironwork
Introduces the practical applications of traditional and modern metal-working techniques focusing on the history, development, and present-day practices used in the fabrication of architectural ornamental ironwork. Must be at least 18 years old. Materials fees apply. Prerequisite: W 150. Recommended Preparation: W 152.

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W 156 Introduction to Sheet Metal Fabrication
Presents an introduction to and basic training in metal forming, fastening, and blueprint reading skills. Must be at least 18 years old. Materials fees apply. Recommended Preparation: Eligibility for MATH 154.

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