



Welding and Metal Fabrication

By Larry Jeffus

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WELDING AND METAL FABRICATION employs a unique hands-on, project-based learning strategy to teach welding skills effectively and keep you motivated. This groundbreaking new book connects each welding technique to a useful and creative take-home project, making exercises both practical and personal--and avoiding the tedium of traditional, repetitive welding practices. To further enhance the learning process, every welding project includes a set of prints with specifications, like those used in production fabrication shops. This full-featured approach to skill-building reflects the reality of professional welding, where following prints and instructions precisely and laying out, cutting out, and assembling weldment accurately are just as essential as high-quality welding. The included projects are small to conserve materials during the learning process, but detailed instructions and abundant photos and illustrations guide you through a wide range of fabrication skills. Key steps and techniques within the small projects are also linked to larger projects presented at the end of each chapter, enabling you to apply what you have learned by fabricating and welding something more substantial. This thorough, reader-friendly book also prepares you for real-world success by covering shop math and measurement, time and material tracking, and invoicing.

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Editorial Review

About the Author

Larry Jeffus is a welder with over 55 years of welding experience, and he has his own well-equipped welding shop. In his welding career he has passed many welding certification tests in a wide variety of processes, positions, and on many different material types and thicknesses. Larry has provided welding and professional consulting services locally, nationally, and internationally to major corporations, small businesses, government agencies, schools, colleges, and individuals. He is a Life Member of the American Welding Society. Larry Jeffus has over forty years experience as a dedicated classroom teacher and is the author of several Delmar Cengage Learning welding publications. Prior to retiring from teaching, Professor Jeffus taught at Eastfield College, part of the Dallas County Community College District. Since retiring from full-time teaching, he remains very active in the welding community, especially in the field of education. He serves on several welding program technical advisory committees and has visited high school, college, and technical campuses in more than forty states and four foreign countries. Professor Jeffus was selected as Outstanding Post-Secondary Technical Educator in the State of Texas by the Texas Technical Society. Professor Jeffus has served for 12 years as a board member on the Texas Workforce Investment Council in the Texas Governor's office where he works to develop a skilled workforce and bring economic development to the state. He served as a member of the Apprenticeship Project Leadership Team where he helped establish apprenticeship training programs for Texas, and he has made numerous trips to Washington lobbying for vocational and technical education. Larry Jeffus holds a Bachelor of Science Degree and has completed post graduate studies.

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