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# Welding Essentials: Questions And Answers



## Synopsis

Expanded to include a new and heavily illustrated chapter on fabrication and repair tips. Presents all essential material for beginning welders in small, easy-to-read and understand units. Introduces the beginning welder to weld inspection, welding symbols and qualification and certification issues. Can be used in conjunction with welding processes and safety seminars, and as a result become a tremendous asset to companies needing to log and claim that they put printed safety materials into employees' hands. Discusses the difference between constant voltage and constant current power supplies and traces the development of welding power supplies from motor-generator sets to transformers to the inverters of today. A metallurgy chapter explains how welding heat affects metals' properties and how to minimize its negative effects and provides a clear explanation of hardening, tempering and heat treating steel. More than 300 illustrations clarify and detail explanations of every subject. Includes a comprehensive glossary in English and Spanish.

## Book Information

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## Customer Reviews

With the exception of torch manipulation instructions (best presented in a classroom setting, it is argued), the authors attempt to present all the technical and safety information necessary for beginner welder needs. Many black and white illustrations accompany the discussion of equipment, metallurgic processes, soldering and brazing techniques, and weld inspection issues. Book News, Inc. #174, Portland, OR --This text refers to an alternate Paperback edition.

Finally a guide that makes welding easy for beginners and is a handy reference for professionals! As a concise yet thorough introduction to the topic, *Welding Essentials* is designed for educators, engineers, contractors, fabricators, hobbyists, students and beginning weldors. Its unique, comprehensive question-and-answer format will allow readers to quickly find what they are looking for and fully understand it. Eliminating non-essential items to prevent overloading the reader, *Welding Essentials* addresses safety hazards and required precautions in detail and provides solutions to common problems for each process. Currently, for liability reasons many U.S. companies have one or two-day seminars for floor-level workers covering welding processes and safety. With this in mind *Welding Essentials* can be used in conjunction with these seminars, and as a result will be a tremendous asset to companies needing to log and claim that they put printed safety materials into employees hands. Additionally, *Welding Essentials* discusses the difference between constant voltage and constant current power supplies and traces the development of welding power supplies from motor-generator sets to transformers to the inverters of today. It also carefully explains step-by-step setup and shutdown procedures, along with why equipment grounding and GFIs are needed and the way in which they work. In fact, no other welding text covers electrical safety as thoroughly as *Welding Essentials*. What's more, a metallurgy chapter explains how welding heat affects metals properties and how to minimize its negative effects and provides a clear explanation of hardening, tempering and heat treating steel. As a valuable guide for beginning welders it presents essential material in small, easy-to-read and understand units and introduces them to weld inspection, welding symbols and qualification and certification issues. *Welding Essentials* uses more than 300 illustrations to clarify and explain every subject and includes a comprehensive glossary in English and Spanish. --This text refers to an alternate Paperback edition.

Nice book about welding. A book every beginner needs to get started.

Required reading for welding certification class - Basic in some regards but even a pro can find a few pointers and a little refresher in it.

It's like having your own personal welding instructor. The only thing missing is a little demonstration now and then.

This is a dry, but very comprehensive, book on basic welding practices. I suspect it was written for

college level welding classes. If you want some good depth on welding, this is the book for you. If you are looking for welding tips, move along.

perfect

This book describes things very well and covers a wide range of welding topics that most should be able to see a benefit from. So, I recommend it for a wide range of people!

This is a very good book if you weld or just need to have info on welding a must have

This book covers the subject in broad terms, good for a new by to understand basics, but there are more detailed reference books for experienced welders.

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