

# Marine Electrical Basics Workbook

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updated with the 2000 rules the fourth edition provides shipyard electricians

and electrical designers with the step by step instruction they need to design and install electrical systems on marine installations whether shipboard or offshore written for novices this workbook offers three modules of skill level fundamentals intermediate and advanced within each module the author provides five lessons filled with detailed outlines diagrams charts formulas examples solutions blank worksheets and study guides for increased understanding suitable for use as either a course text or as a self help guide this workbook examines current rules and regulations of the american bureau of shipping united states coast guard national electronic code and institute of electrical and electronic engineers 45 using this information readers will acquire a basic knowledge of task requirements including basic ship construction as well as power and lighting system building and installation featuring the editorial revisions of the abs rules for building and classing steel vessels this edition addresses changes made to the american bureau of shipping s abs rules including the re numbering and re organization of all section numbers for ease of reference the author includes a chart of both the new abs rules and the old abs rules used throughout the workbook

the book introduces basic knowledge of electricity for students and beginners to the electrical industry it has hundreds of colorful diagrams and photographs this book provides step by step instructions for experiments that show you how electronic components work advice on choosing and using essential tools and exciting projects you can build in 30 minutes or less you'll get charged up as you transform theory into action in chapter after chapter circuit basics learn what voltage is where current flows and doesn't flow and how power is used in a circuit critical components discover how resistors capacitors inductors diodes and transistors control and shape electric current versatile chips find out how to use analog and digital integrated circuits to build complex projects with just a few parts analyze circuits understand the rules that govern current and voltage and learn how to apply them safety tips get a thorough grounding in how to protect yourself and your electronics from harm

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