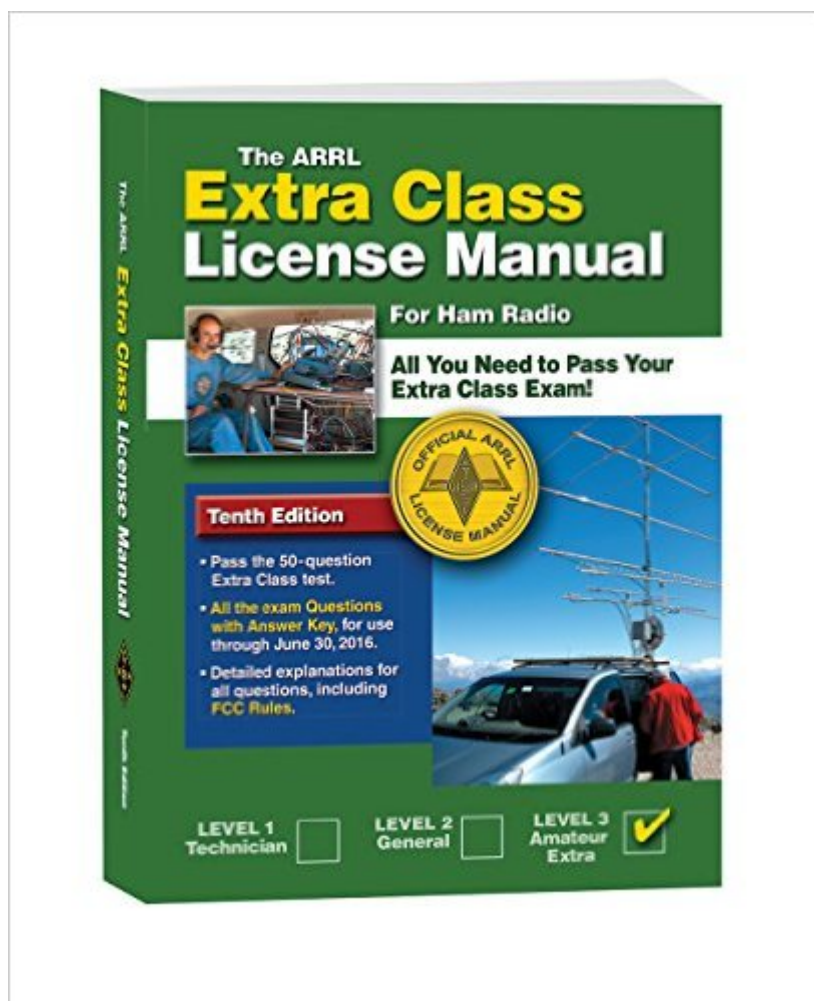


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# The ARRL Extra Class License Manual (Arrl Extra Class License Manual For The Radio Amateur)



## Synopsis

All You Need To Pass Your Extra Class Exam! Pass the 50-question Extra Class test All the Exam Questions with Answer Key, for use through June 30, 2016 NEW! Use with ARRL's online Exam Review for Ham Radio. Detailed explanations for all questions, including FCC rules The ARRL Extra Class License Manual is your ticket to every privilege granted to Amateur Radio Operators. Our expert instruction will lead you through all of the knowledge you need to pass the exam: rules, specific operating skills and more advanced electronics theory. As an Extra Class licensee, you will have full privileges on all frequencies authorized by the FCC for Amateur Radio. To upgrade to Extra Class you must already hold a General Class license (or have recently passed all of the exams required for a General Class license). Upgrading to an Extra license only requires passing a written examination. Use this book to study for your Extra Class (Element 4) license exam. Every page presents information you will need to pass the exam and become an effective operator. For study purposes, information is presented in small sections: Operating Practices Rules and Regulations Components and Building Blocks Electronic Circuits Radio Signals and Measurements Radio Modes and Equipment Antennas and Feed Lines Topics in Radio Propagation Safety NEW FEATURE: Online Review and Practice Exams. As you complete each chapter of this book, use ARRL's online Exam Review for Ham Radio to help prepare you for exam day. This web-based service uses the question pool to construct chapter-by-chapter reviews. Once you've finished this book, use the online service to take practice exams with the same number and variety of questions that you'll encounter on exam day. You won't have any surprises on exam day!

## Book Information

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## Customer Reviews

First, a quick check - as you probably know, the question pool for the Extra exam changed on 1 July 2012. Make sure that you get the matching edition of this book and CD - if you order from this page you will be getting the correct edition - the tenth edition. The ninth or earlier editions are useless now. This new tenth edition corrects the shortcomings and problems in the ninth edition which I'd earlier commented negatively about, and uses the same layout and logic as is present in the current version of the General exam study manual too. I've found the best way to study is to use the CD/computer questions/review together with the printed manual. I work through the CD's questions, and if I both get a question wrong and don't understand the short explanation that is then provided, I turn to the relevant page in the book to read the more detailed explanation. If necessary, I'll expand to read the entire chapter in the book. This gives a fairly directed approach to learning just enough to pass the test. Sure, we could all try to learn every one of the hundreds of pages of material in the manual, and maybe in a perfect world that would be ideal. But for those of us keen to simply extend our license that magic extra step, and if we're not going to need to go into the fairly advanced math to design and build our own R-C and other types of circuits, it is sufficient to simply adopt this directed approach to working through the 'need to know' material, and will save you hundreds of hours. That is the great thing about this manual.

This is a very thorough guide that is well worth getting. It not only has all the Rules + Regs you need to know, along with all technical theory, it also has the complete (700+) question pool and answers in the back separated by groups. I used this book as my primary study guide. I did not use the CD at all. I did use QRZ.com to take practice tests and I also bought the Amateur Radio Exam Prep Extra Class iPhone app and I found the iPhone app invaluable. Anytime I had a few minutes - whether at home, on the road, waiting for someone, etc., I would take out my iPhone and start taking a practice test. Here's how I studied and passed with 100%: I started the third week of January, 2013 after not being active on the air for 4 or 5 years. I held a General license. I first started looking online for resources and settled on QRZ and the iPhone app. When I first started taking the sample tests I was getting 40% - 50% on them. I quickly realized I needed to study so I bought this guide. I went through each section and took practice tests from each chapter in the book. When I didn't get something right, I'd go back and re-read it and try it again. I received this book on Jan 29th and took

the test on Feb 9th. The book was a lifesaver. In just over two weeks of studying quite a bit I got down to the last 3 days prior to the test date. In two of those days I went through the ENTIRE question pool twice and familiarized myself with the questions and the answers. This may seem extreme but I was finding certain things were confusing me when studying the theory. Over the last 2 days my sample testing grades went from about 80% - 85% to 95% - 98%. I never once got 100% on any practice test from any testing source (QRZ or iPhone app)!

The same author wrote all three of the ARRL's study guides for the three levels of FCC amateur radio licensing exams. In general, he is an excellent author, with some important few lapses. The Amateur Extra exam is by far, the hardest exam because of its theoretical and mathematical content, and because it's longer than the two prior exams for Tech and General classes; the Amateur Extra has fifty questions while the first two exams have 35. And there is serious math on the exam way past what I saw in Algebra II in high school, imaginary number and some pretty fancy work in trigonometry. Yikes. Before reading this book, I did not know that trig had anything to do with electronics! Like many other users of this book, I'm sure, I am not a math person. But the author really does skip a bit lightly and then plunges right into the deep end of the pool. I think that he expects that many users will be in a prep class and use this work as a backup. He does provide links to websites that cover the math and some other technical matters, but I think the readers have a right to expect this book to tell the whole story about understanding all of the questions and all of the answers, and, as related, he really does take the reader to two places at the deep end of the pool. Actually, a check of all ARRL-sanctioned classes within 75 miles of Chicago showed no scheduled classes for this exam, and going further in the search, the ones within 250 miles were held on weeknights, making it impossible for someone living here. I expect that the large majority of people around the US will be on their own. So I do expect the ARRL extra class manual to cover the turf in depth as the only instruction most candidates will have.

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