

Technician and
General Class
Amateur Radio &
Satellite Stuff

Anthony
Odenthal,
KE7OSN
Amateur Extra

Introduction

General Rules

T1A - Amateur
Radio services;
purpose of the
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operator/primary
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where FCC rules are
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Technician and General Class Amateur Radio & Satellite Stuff

Anthony Odenthal, KE7OSN Amateur Extra

December 2, 2013

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Welcome, over the next several sessions we will cover a substantial amount of information. please ask questions and slow me down.

The goals are:

- To introduce you to Amateur Radio

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The goals are:

- To introduce you to Amateur Radio
- Prepare you to take (and pass) the technician and general exams

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The goals are:

- To introduce you to Amateur Radio
- Prepare you to take (and pass) the technician and general exams
- Introduce you to satellite communications.

A little about myself

Technician and
General Class
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Anthony
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- Passed Tech Sept 2007
- Passed Gen Oct 2007
- Joined Benton County ARES April 2012
- Passed Extra April 2012
- Became a VE in June 2012

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What is Amateur Radio?

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Amateur radio are people and activities that are regulated and encouraged, in the US and abroad, that allow licensed individuals to play around with radio waves, electronics, software, techniques, practices, and equipment to do all sorts of really cool stuff. Radio Amateurs are some of the least restricted users of radio spectrum, and with that freedom they have proven time and time again their worth. The term Amateur refers to someone who does something as a pastime rather than a profession.

Some useful tools

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Some things you may want to look into as useful for studying

- AA9PW practice exams <http://aa9pw.com>
- ARRL license Manuals <http://www.arrl.org/shop/Licensing-Education-and-Training/>

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- 35 questions

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- 35 questions
- Multiple Choice

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- 35 questions
- Multiple Choice
- No time limit

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- 35 questions
- Multiple Choice
- No time limit
- 396 questions in the tech pool, 457 in the general

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- 35 questions
- Multiple Choice
- No time limit
- 396 questions in the tech pool, 457 in the general
- Need a 75% to pass

Shal we begin?

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Remember if I go too fast or you have questions, let me know.

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47 CRF 97.1 Basic Purpose

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The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

- A Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.

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- A Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.
- B Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.

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- C Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.

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- D Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.

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- D Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.
- E Continuation and extension of the amateur's unique ability to enhance international goodwill.

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Who's In charge

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International Telecommunications Union (ITU)

- Worldwide, treaty-based organization that allocates frequencies for specific uses.
- Primary Users - first "rights" to a frequency
- Secondary Users - permitted to use a frequency but must not interfere with a primary user
- World divided into 3 regions, US is in Region 2
- Creates "bands" - sections of spectrum allocated for amateur radio use.

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Federal Communications Commission (FCC)

- Promulgates rules for non-federal radio users within ITU spec
- Divides amateur bands into mode-specific sub-bands
- Rules for telecommunications are in the Code of Federal Regulations, Chapter 47
- Rules for amateur radio are in Part 97 of Chapter 47 (47 CFR 97)

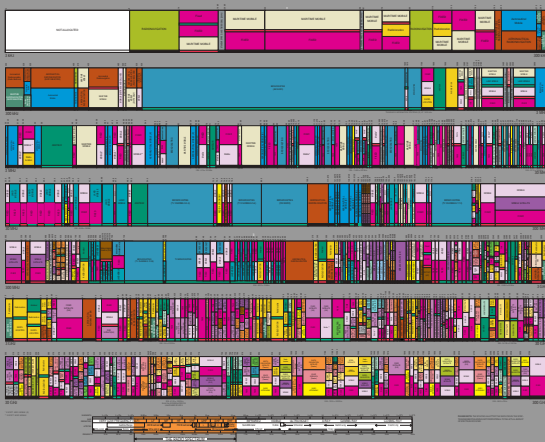
FCC allocations

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UNITED STATES FREQUENCY ALLOCATIONS



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General Class
Amateur Radio &
Satellite Stuff

Anthony
Odenthal,
KE7OSN
Amateur Extra

Introduction

General Rules

T1A - Amateur
Radio services;
purpose of the
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where FCC rules are
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