Ham Radio Technician License Course Outline

Tri-Lakes Monument Radio Association [A Colorado-registered 501(c)(3) organization] Oct 2022 v1

Instructors:

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Course Objective:

This course has two objectives:

- 1. The student will be able to pass the FCC Technician License Exam (Element 2), qualifying for the first level FCC Amateur Radio License.
- 2. The student will have sufficient knowledge to operate an amateur radio station on the Technician frequency allocations above 50 MHz.

Philosophy:

This is a highly compressed course that depends on the <u>focus and motivation</u> of the student. <u>Reading assignments</u> <u>must be done in advance of the classroom sessions</u>. The classroom sessions are fast paced, covering a wide variety of material in a short time. The use of practice exams is very important for evaluating topic areas that need attention.

Reading Material:

Required: <u>Ham Radio School Technician License Course</u> by Stu Turner, WØSTU (\$19.95). Be sure you obtain the 2022-2026 question pool edition, as shown here.

Practice Exams

These online practice exams are <u>extremely helpful</u> for testing your knowledge:

Book Section Quizzes and full 35-question practice exams:

https://www.hamradioschool.com/section-quizzes

Additional practice exams found at:

https://www.qrz.com/hamtest/ https://www.eham.net/exams/ http://aa9pw.com

The aa9pw.com site requires an account registration to access exams.

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Online Zoom Meetings & Video Lessons

Logon information is the same for all three **Zoom meetings**. The meeting code will be distributed to registered students via email in advance of each session. Please be sure to test your Zoom meeting app for updates and to test your computer/internet for adequate performance with Zoom prior to this class.

Video lessons are hosted online. Students can begin viewing videos for Ch.Ø and (optional) Ch. 1 by going to: https://hamradioschool.thinkific.com/courses/tech-course (Click 'enroll for free' button and create an account to gain access.) A link for the Chapter 10 video will be provided later.

SCHEDULE

Chapter	Topics	Inst	Pages	Duration (min)	Comments / Start-End Time
Video Lesson, Pre-Session 1					
0	Before We Begin	video	1 to 8	15	Watch video before class session 1.
	<u> </u>	•	•	•	
In-Person Session 1, Black Forest Fire & Rescue, Saturday Oct 15, 9:00 am - 3:30 pm					
	Welcome and Course	Bob	,	15	9:00-9:15 Intros, schedule overview
	Overview				,
1	Operating Your Radio	Stu	9 to 28	85	9:15-10:40
	Break			10	10:40-10:50
2	FCC Rules & Regs	Tim	29 to 45	60	10:50-11:50
	Lunch Break			45	11:50-12:35
3	Things to Do!	Bob	47 to 51	30	12:35-1:05
4	Wavelength, Frequency &	Bob	52 to 64	45	1:05-1:50
	Bands				
	Break			10	1:50-2:00
5	Signal Propagation	Stu	65 to 72	35	2:00-2:35
6	Processing Signals	Stu	73 to 83	50	2:35-3:25
Session				385	
Zoom Re	emote Session 2, Sunday C	Oct 16 4	1:00 – 5:30 pr	n	
7	Antennas	Bob	85 to 104	65	4:00-5:05
	Q&A (all material to date)	Bob		25	5:05-5:30
Session				90	
0000.0					
Zoom Re	emote Session 3, Tuesday	Oct 18	6:00 – 8:30 p	m	
8	It's Electric!	Tim	105 to 124	50	6:00-6:50
	Break		100 10 121	10	6;50-7:00
9	Hamtronics	Tim	125 to 140	60	7:00-8:00
Session			120 10 110	120	1100 0100
00001011				.20	
Video Le	esson, Pre-Session 4				
10	Digital Modes	Stu	141 to 148	45	Watch video before Session 4
	1 - 3	0.00		, , ,	
In-Perso	n Session 4, Black Forest	Fire & F	Rescue. Satur	rdav Oct 22	. 9:00 am – 3:00 pm
	Ch-10 Q&A, digital demos	Bob	,	30	9:00-9:30 (DMR & Echolink Demos)
11	Space Contacts	Stu	149 to 155	35	9:30-10:05
	Break		12 12 130	10	10:05-10:15
12	Avoiding Interference	Bob	156 to 165	35	10:15-10:50
13	Safety	Tim	167 to 183	40	10:50-11:30
	Lunch Start + Wrap Up	Bob	10. 10 100	60	11:30-12:30 (wrap up starts 11:40)
	Review Q&A	Stu		30	12:30-1:00
	VE Exam	VE		120	1:00-3:00 (Room reconfiguration;
	LAGIII	team		120	Exam starts at 1:30)
Session	Total	toani		360	Zam dano at 1100)
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Black Forest Fire & Rescue, Station 1: 11445 Teachout Road, Colorado Springs, CO 80908 [map link] (At the intersection of Burgess Rd. & Teachout Rd. in the Black Forest area.)

- No fee is charged for the license examination.
- The FCC charges a \$35 license application processing fee to be paid online within 10 days of passing the exam.
- Bring to the exam: 1) photo ID, 2) pencil, 3) conventional calculator (no cell phone use allowed).
- You must register in advance for the exam session at the WØTLM website: WØTLM License Exam Team web page