



Westlakes Amateur Radio Club

Classes and Classroom Activities

2024



This year, Preparation Classes for Amateur Radio Licensing Exams will continue, with the inclusion of a **Standard** and an **Advanced** group, as well as two **Foundation** Groups (One at the beginning of the year and one in Term 4).

The Standard Course will not commence until Term 4 of 2024 however, a small group of Standard Licence applicants will be able to participate in a guided set of activities in Terms 1 and 2, with a weekly Zoom Meeting in the evening, during the week.

In addition, a Robotics Programming Course will be run on Wednesdays for those interested in general electronics, programming, and control.

An outline of each of the Saturday courses is provided on the following pages.

GENERAL LINKS

Practice Exams for each of the License levels are available through the HamExam App.

<https://www.hamexams.net/>

Amateur Radio Victoria has Practice Exams for Each Level.

<https://amateurradio.com.au/licence/>

The Wireless Institute of Australia is our Association as Amateur Radio Enthusiasts.

<https://www.wia.org.au/>

The WIA also has Practice Exams for Foundation level.

<https://www.wia.org.au/licenses/foundation/onlineexams/foundation.php>

Foundation Group – Term 1

0930 to 1200 on Saturdays, in Term 1 of 2024, in the Westlakes ARC Classroom at Teralba, NSW

Or join the live class in the Zoom Meeting Room:

<https://zoom.us/j/94380959636?pwd=WHZEaUJpY3YwOFNVOGJRQTIucmJYUT09>

Meeting ID: 943 8095 9636

Passcode: 727320

WK	DATE	LINKS
1	10 Feb	Amateur Radio Regulations and Practices https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2010.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%204.pdf
2	17 Feb	Maths and Basic Electricity https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-2.pdf https://youtu.be/vWuKDoaokA
3	24 Feb	Frequency, Capacitance, Inductance and Resonance https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-3.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%202.pdf
4	2 Mar	Transmitter and Receiver Block Diagrams https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%203-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%203-2.pdf
5	9 Mar	Antennas and Transmission Lines https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-2.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-3.pdf
6	16 Mar	Propagation and Interference https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%206.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%209.pdf
7	23 Mar	Equipment Setup and Operations https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2011-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2011-2.pdf
	30 Mar	Public holiday weekend
8	6 Apr	Electrical and Operational Safety https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%208.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%207.pdf
EXAM	13 Apr	25 Multiple Choice Questions in 30 Minutes and A Practical Test

GENERAL LINKS

Jules' Workshop: Foundation and Practical Resources:

<https://www.julesworkshop.net/Zero%20to%20Foundation.html>

<https://www.julesworkshop.net/Zero%20to%20Practical.html>

Radio and Electronics School: Free Foundation Course with Videos

<https://www.youtube.com/watch?v=kHbvJHgwUNw>

Standard Group – Term 4

1230 to 1500 on Saturdays in Term 4 of 2024, in the Westlakes ARC Classroom at Teralba, NSW

Or join the live class in the Zoom Meeting Room:

<https://zoom.us/j/94380959636?pwd=WHZEaUJpY3YwOFNVOGJRQTlucmJYUT09>

Meeting ID: 943 8095 9636

Passcode: 727320

WK	DATE	LINKS
1	12 Oct	Amateur Radio Rules and Regulations – Sections 1 and 2
2	19 Oct	Mathematics and SI Measurement – Sections 3 and 11
3	26 Oct	DC and AC Theory – Section 4
4	2 Nov	AC Signals, Capacitors, and Inductors – Section 4
5	9 Nov	Reactance, Impedance, and Resonance – Section 4
6	16 Nov	Semiconductor Theory – Section 4
7	23 Nov	Radio Equipment – Sections 5 and 6
8	30 Nov	Radio Signals and Propagation – Sections 6 and 7
9	7 Dec	Electromagnetic Interference, Practices and Procedures – Sections 8 and 9
11	14 Dec	Equipment and Electrical Safety and Theory Review – Section 10
EXAM	21 Dec	Theory: 50 Questions in 60 minutes. Regulations: 30 questions in 30 minutes

GENERAL LINKS

Jules' Workshop: Regulations Resources

<https://www.julesworkshop.net/Zero%20to%20Regulations.html>

Advanced Group – Terms 1 and 2

1230 to 1500 on Saturdays in Terms 1 and 2 of 2024, in the Westlakes ARC Classroom at Teralba, NSW

Or join the live class in the Zoom Meeting Room:

<https://zoom.us/j/94380959636?pwd=WHZEaUJpY3YwOFNVOGJRQTlucmJYUT09>

Meeting ID: 943 8095 9636

Passcode: 727320

WK	DATE	LINKS
1	10 Feb	The Simple Electrical Circuit, Ohms Law and SI Measurement
2	17 Feb	Resistors: Types, parallel and Serially Connected Circuits
3	24 Feb	Electromagnetism, AC Signals, Transformers and the Conservation of Energy
4	2 Mar	Capacitors and RF Inductors, Reactance and Resonance
5	9 Mar	Semiconductor Theory: BJTs FETs, Diodes, Regulators and ICs
6	16 Mar	Oscillators and the Phase Locked Loop.
7	23 Mar	Filters, Mixers and Amplifiers
	30 Mar	Public holiday weekend
8	6 Apr	Receiver Types, Parts and Block Diagrams
9	13 Apr	Transmitter Types, Parts and Block Diagrams
	20-27 Apr	Term Break
10	4 May	Transmission Lines and Impedance matching
11	11 May	Antenna Types and Characteristics
12	18 May	Propagation Modes and Significance to the Bands
14	25 May	Transceiver Controls, Interference and Radiocommunications Compliance
15	1 Jun	Measurement and Measuring Devices
16	8 Jun	Decibels and Logarithmic Scales
17	15 Jun	Digital Signals and Modes, Software and How to Control Your Radio
18	22 Jun	Mains Electricity and Electrical and Shack Safety
EXAM	29 Jun	50 Multiple-choice questions in 90 minutes

GENERAL LINKS

Jules' Workshop: Advanced Resources

<https://www.julesworkshop.net/Zero%20to%20Advanced.html>

Foundation Group – Term 4

1230 to 1500 on Saturdays, in the Westlakes ARC Classroom at Teralba, NSW

Or join the live class in the Zoom Meeting Room:

WK	DATE	LINKS
1	19 Oct	Amateur Radio Regulations and Practices https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2010.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%204.pdf
2	26 Oct	Maths and Basic Electricity https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-2.pdf https://youtu.be/vWuKDoaokA
3	2 Nov	Frequency, Capacitance, Inductance and Resonance https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%201-3.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%202.pdf
4	9 Nov	Transmitter and Receiver Block Diagrams https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%203-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%203-2.pdf
5	16 Nov	Antennas and Transmission Lines https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-2.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%205-3.pdf
6	23 Nov	Propagation and Interference https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%206.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%209.pdf
7	30 Nov	Equipment Setup and Operations https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2011-1.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%2011-2.pdf
8	7 Dec	Electrical and Operational Safety https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%208.pdf https://www.julesworkshop.net/Zero%20to%20Foundation/Chapter%207.pdf
EXAM	14 Dec	<i>25 Multiple Choice Questions in 30 Minutes and A Practical Test</i>

GENERAL LINKS