



COURSE SCHEDULE

Initial Programming for Fall 2021 and Spring 2022

CERTIFICATE COURSES

Basic Qualification Radio Course

Course prepares students for the Innovation, Science and Economic Development Canada (ISED) exam to obtain the Amateur Radio Operator Certificate and call sign – requirements for the legal use of allocated Amateur frequencies. This is the first step into the Amateur radio hobby. Detailed information on upcoming courses is on the RARC Webpage at: <http://www.richmondarc.ca/rarclub/basic147.html>

Class type: Certification
Delivery: Class format
Course time: 15 hours, 6 weeks
Prerequisite: Grade 10 Algebra (recommended but not necessary)
Fee: \$100

Advanced Qualification Radio Course

Course leads to higher qualification allowing greater operating privileges and activities. Curriculum concentrates mainly on electronics and functional operations of radio equipment. Due to low demand, course is offered on demand. Detailed information on upcoming courses is on the RARC Webpage at: <http://www.richmondarc.ca/rarclub/advance140.html>

Class type: Certification
Delivery: Class format
Course time: 15 hours, 6 weeks
Prerequisite: Basic Qualification
Fee: \$85 plus textbook purchase

TRAINING AND SKILLS DEVELOPMENT CLASSES

How to Use Hand-Held Radios

Primer on general use of hand-held radios including FRS and Amateur certified handy-talkies for first-time users and volunteers using radios for community events. Topics include basic radio operations, protocols of working with other parties and agencies, and RF safety. Class is offered on demand to local community groups without charge.

Class type: Skills development
Delivery: Demonstration
Class time: 30 minutes
Prerequisite: Appetite to learn

Introduction to Radio Nets

Primer on participation in net-controlled radio operations and general Amateur radio protocols and processes. Class includes review of properly enunciating the phonetic alphabet and numbers, commonly used pro-words, using call signs when passing radio traffic and basic traffic handling procedures.

Class type: Skills development
Delivery: Training
Class time: 90 minutes
Prerequisite: Basic Qualification

Net Control Operations

Full-day course covering all aspects of net control operations, from the perspectives of both net controller and net participant. Curriculum includes discussions on operational procedures and practices in different forms of nets, demonstrations on tactical use of equipment and accessories, exercise sessions, and analysis of three key events involving net control operations: The Vancouver Sun Run, Steveston Salmon Festival Canada Day Parade and Vancouver Celebration of Lights.

Class type: Training
Delivery: Class with demonstration
Class time: 9 am to 4 pm
Prerequisites: Basic Qualification and/or some radio net experience
Fee: (to be determined)

Using NTS Forms

Primer on how to use National Traffic System (NTS) message forms. Class includes explanation on completing each section of the form, how messages are created, and discussions on how the form is sent.

Class type: Training
Delivery: Class with demonstration
Class time: 30 minutes
Prerequisites: none

INFORMATION PRESENTATIONS

(Private) Use of Radios for Emergencies

Session discusses private/personal radios in emergency preparation and their use during emergencies. Topics will focus on radio operations when commercial communications (cellular system) and electricity (grid power) are unavailable –two key services immediately affected by natural disasters.

Class type: Information
Delivery: Presentation
Class time: 30 minutes
Audience: General public

How to Design a Radio Grab and Go Kit

An overview of the thought process involved in decisions for designing a go kit. The session solely discusses the different design criteria and reviews examples of the solutions that exist. This class is not about specifications for the go kit but taking the correct path to find a suitable solution.

Class type: Information
Delivery: Presentation
Class time: 30 minutes
Prerequisites: Some knowledge of emergency communications

Introduction to Automatic Packet Reporting System

General backgrounder to APRS with discussions on its development history, how the technology works, the principal components and different applications of the technology.

Class type: Information
Delivery: Presentation
Class time: 30 minutes

Amateur Radio in Emergency Communications

Discussions on insourcing and outsourcing of Amateur radio for emergency communications. Overview of how local Amateur radio organizations are involved in emergency communications in the Vancouver area compared to how things are structured south of the border.

Class type: Information
Delivery: Presentation
Class time: 30 minutes
Prerequisite: Familiarity of Amateur radio emergency communications

ARISS - Contacting the International Space Station

Recap on RARC partnering with H.J. Cambie Secondary for students to communicate with the ISS in 2014. The presentation covers the 14-month planning period with the Amateur Radio on the ISS Program (ARISS), which includes discussions on planning, logistics, practice runs and surprises encountered on event day. Content from the session could be extrapolated for learning how to make personal radio contact with the ISS. The project was the largest undertaking by RARC members to date.

Class type: Information
Delivery: Presentation
Class time: 60 minutes
Audiences: General public, anyone with interested in making contact with the ISS, Amateur radio groups planning to organize an ARISS event

SPECIAL INTEREST SESSIONS & SEMINARS

Tech Topics Thursday

An informal weekly online forum on Thursday evenings at 7 pm with a scheduled technical topic for each week but also entertains participants to bring up their own topics of interest. Session is hosted by RARC member, Roy Thaller, VA7RTL and is open to all radio Amateurs. To join the weekly session, contact Roy at: VA7RTL@gmail.com for access info.

Class type: Information
Delivery: Forum
Session time: 60 minutes
Audiences: All radio Amateur

Discover Amateur Radio Seminar

All-day event consisting of scheduled sessions presented by invited subject experts from the local Amateur radio community. The agenda includes presentations, demonstrations and discussion forums. The event brings together radio Amateurs and interested public for knowledge exchange on related topics, and cultivate interest in Amateur radio activities. To learn more about the seminar, contact Urey at: VE7URE@cwthree.com.

Class type: Information
Delivery: Presentations, demos and discussion forums
Seminar time: 9 am to 4 pm
Audience: Radio Amateurs, public
Admission: (to be determined)