

# **COURSE INFORMATION**

## **Objectives of the Course:**

1. To prepare students to pass the examination required to earn the Basic Qualification.
2. To prepare students to operate on the Amateur Bands. As a consequence, this course will cover a lot of material that they will not be tested on in the exam, but will help them to be ready for the test that occurs every time they get on the air.

**Course Philosophy:** This course is **NOT** taught by having students copy notes from the blackboard/white board. Instead, students are to proceed through an assigned lesson **BEFORE** coming to class. Each lesson contains a reading assignments and Power Point (PPT) presentations. Students will then test themselves using the practice chapter and final exams generated by the Student Success Pages (SSP) on the Coax Publications web site. As part of the self-testing process students will then identify any topics they **DO NOT** understand; these will be dealt with in the first part of the **NEXT** class.

## **Course Materials:**

**Study Guide:** This course is integrated with the *Canadian Amateur Radio Basic Qualification Study Guide - 9<sup>th</sup> Edition*. With the purchase of the study guide comes access to the Student Success Pages on the Coax Publications web site. Access codes will be provided at the first class.

**Supplementary Materials:** These will be provided at the first class.

## **Useful Things To Have:**

- A laptop that can access the Internet via the Wi-Fi link in the classroom. If you have one, please bring it to the first class. Plan B is access to a desktop computer at home.

- **Software that plays Power Point presentations: MS Office or LibreOffice.** The latter is a free from [www.libreoffice.org](http://www.libreoffice.org)
- **\_Access to a scientific calculator.** Not a lot of money at your local “dollar store”. You know it is a scientific calculator if you see a key marked LOG.
- **A highlighter.**

**Mode of Instruction:** This course will **NOT** be taught by having you copy notes from the blackboard/white board. Each lesson contains a reading assignment and a Power Point (PPT) presentation. After completing the reading assignment and power point presentation you will then do a chapter test generated by the Student Success Pages (SSP) on the Coax Publications web site. You will be shown how to access the SSP during the first class. As part of the self-testing process you will then identify any topics you DO NOT understand; these will be dealt with in the first part of the next class. The rest of the classroom time will be devoted to “hands on” activities.

**Examination:** The bad news is that you will have to write an exam in order to earn the Basic Qualification. This consists of 100 multiple choice questions. The good news is that the bank of questions, from which the exam is compiled, is part of the materials provided for the course. You will be provided with a revised version of the Industry Canada Question Bank for the Basic Qualification that is keyed to the study guide.

### **Course Sequence:**

**Class 1:** Hand out course materials. Students will learn how to use the Student Success Pages. Quick test of math skills. Students will learn the phonetic alphabet. Students search for a call sign. Assign Lesson 1 – All Things Electrical.

**Lesson 1 Homework:** As you proceed note anything that gives you trouble and bring it up at the start of the next class.

- Read Chapter 1
- Read Chapter 2: View the Chapter 2 power point. Go online and do a Chapter 2 test. Keeping testing yourself until you have mastered the material.
- Read Chapter 3. View the Chapter 3 power point. Go online and do a Chapter 3 test. Keep testing yourself until you have mastered the material.
- Read Chapter 4. View the Chapter 4 power point. Go online and do a Chapter 4 test. Keep testing yourself until you have mastered the material.

**Class 2: Deal with any problems with Lesson 1. Various hands-on activities.  
Assign Lesson 2 – Waves, Bands, Propagation:**

**Lesson 2 Homework:** As you proceed note anything that gives you trouble and bring it up at the start of the next class.

- Read Chapter 5: View the Chapter 5 power point. Go online and do a Chapter 5 test. Keeping testing yourself until you have mastered the material.
- Read Chapter 6. View the Chapter 6 power point. Go online and do a Chapter 6 test. Keep testing yourself until you have mastered the material..

**Class 3: Deal with any problems with Lesson 2. Various hands-on activities.  
Assign Lesson 3 - Getting Your Signal Out IntoThe Aether: Transmission Lines & Antennas**

**Lesson 3 Homework:** As you proceed note anything that gives you trouble and bring it up at the start of the next class.

- Read Chapter 7: View the Chapter 7 power point. Go online and do a Chapter 7 test. Keeping testing yourself until you have mastered the material.
- Read Chapter 8. View the Chapter 8 power point. Go online and do a Chapter 8 test. Keep testing yourself until you have mastered the material.
- Have a look at *Soldering Tips* and *Installing a PL-259 Connector* in the Supplementary Materials.

**Class 4: Deal with any problems with Lesson 3. Various hands-on activities.  
Assign Lesson 4 - Solid State and Its Applications**

**Lesson 4 Homework:** As you proceed note anything that gives you trouble and bring it up at the start of the next class.

- Read Chapter 9: View the Chapter 9 power point. Go online and do a Chapter 9 test. Keeping testing yourself until you have mastered the material. There is far more in this chapter than you have to know; the quiz will give a sense of what is expected of you.
- Read Chapter 10. View the Chapter 10 power point. Go online and do a Chapter 10 test. Keep testing yourself until you have mastered the material. There is far more in this chapter than you have to know; the quiz will give a sense of what is expected of you.

**Class 5: Deal with any problems with Lessons 4. Various hands-on activities.  
Assign Lessons 5 - Getting On The Air.**

**Lesson 5 Homework:** As you proceed note anything that gives you trouble and bring it up at the start of the next class.

- Read Chapter 11: View the Chapter 11 power point. Go online and do a Chapter 11 test. Keeping testing yourself until you have mastered the material.
- Read Chapter 12. No power point for this chapter. Go online and do a Chapter 12 test. Keep testing yourself until you have mastered the material.

**Class 6: Deal with any problems with Lesson 5. Various hands-on activities.  
Assign Lesson 6 – Transmitters and Receivers.**

**Lesson 6 Homework:**

- Read Chapters 13 and 14: View the Chapters 13 and 14 power point. Go online and do Chapter 13 and Chapter 14 tests. Keeping testing yourself until you have mastered the material. Keep an eye out for the “what is connected to what” questions.

**Class 7: Deal with any problems with Lesson 6. Various hands-on activities.  
Assign Lessons 7 - Staying Alive, Not Annoying Your Neighbours and Rules of the Road**

**Lesson 7 Homework:**

- Read Chapter 15: View the Chapter 15 power point. Go online and do a Chapter 15 test. Keeping testing yourself until you have mastered the material.
- Read Chapter 16. View the Chapter 16 power point. Go online and do a Chapter 6 test. Keep testing yourself until you have mastered the material.
- Read Chapter 17. View the Chapter 17 power point. Go online and do a Chapter 17 test. Keep testing yourself until you have mastered the material
- Go online and do lots of practice exams
- Fill in the forms required when you write the exam.

**Class 8: Deal with any problems with Lesson 7. Review last minute concerns.  
Write the exam.**

**Contacting the Instructor:**

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