Introduction:

First, thank you for being a RELM customer. RELM is a P25 subscriber manufacture and are committed to its customers at the highest levels. One of these levels includes our Customer First training philosophy. We strive to train customer only on the information they require. Our training programs are completely customizable to fit you and your customers’ needs. This course list is only a guideline to assist customers in establishing a training program. It is the customer’s tool and can be amended to include customer specifics.

Most class sizes are approximately 5 to 10 students. This enables hands on time with each student to confirm proper training. Most training courses will require the use of a computer and radio. To take full advantage of all training modules it is recommended (although not required) that all students bring a computer and radio to class.
Recommended Training Programs:

**Radio User**

**Recommended Courses:**

(Please select the courses for the different radio types users require)

- **KNG-100** – Basic KNG Portable Radios – 1 hours
- **KNG-110** – Basic KNG Mobile Radios – 1 hours
- **KNG-130** – Basic KNG2 Portable Radios – 1 hours

**Total Training Time:** 1-3 Hours

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**Radio Technician**

**Recommended Courses:**

(Please select the courses for the different radio types users require)

- **KNG-100** – Basic KNG Portable Radios – 1 hours
- **KNG-110** – Basic KNG Mobile Radios – 1 hours
- **KNG-130** – Basic KNG2 Portable Radios – 1 hours
- **KNG-200** – Advanced KNG Portable – 2 hours
- **KNG-210** – Advanced KNG Mobile – 2 hours
- **KNG-230** – Advanced KNG2 Portable – 2 hours
- **ENG-100** – Basic Troubleshooting – 2 hours

**Total Training Time:** 5 – 11 hours
Trunked Radio Technician

Recommended Courses:

(Please select the courses for the different radio types users require)

KNG-100 – Basic KNG Portable Radios – 1 hours
KNG-110 – Basic KNG Mobile Radios – 1 hours
KNG-130 – Basic KNG2 Portable Radios – 1 hours
KNG-200 – Advanced KNG Portable – 2 hours
KNG-210 – Advanced KNG Mobile – 2 hours
KNG-230 – Advanced KNG2 Portable – 2 hours
ENG-100 – Basic Troubleshooting – 2 hours
ENG-200 – Trunking Troubleshooting- 2 hours
NEO-200 – Advanced RES – 4 hours

Total Training Time: 11-17 hours

Mobile Installer

Recommended Courses:

KNG-111 – Mobile Installation – 1 hours
KNG-211 – Mobile Remote Installation – 1 hours

Total Training Time: 2 hours
Radio Programmer

Recommended Courses:

NEO-100 – Basic RES – 2 hours  
NEO-200 – Advanced RES – 4 hours  

Total Training Time: 2-4 hours

Project Planner/Designer

Recommended Courses:

NEO-100 – Basic RES -2 hours
NEO-200 – Advanced RES – 4 hours
ENG-500 – Conventional System Planning and Design – 1 hours
ENG-501 – Trunking System Planning and Design – 1 hours
ENG-510 – Mobile Fleet Planning and Design -1 hours

Total Training Time: 3-9 hours
Course Listing:

NEO-100 – Basic RES

Prerequisites: NONE

Description: Students will learn how to download, install and configure RES to read and write radios. Basic overview of Conventional programming.

Recommended Class Size: 5-15

Estimated Time: 2 Hours

NEO-200 – Advanced RES

Prerequisites: NONE

Description: Students will learn how to download, install and configure RES to read and write radios. Basic overview of Conventional programming and Trunking programming. Advanced codeplug generation techniques.

Recommended Class Size: 5-10

Estimated Time: 4 Hours

NEO-210 – Basic Encryption w/ RES

Prerequisites: NEO-100 or NEO-200

Description: Students will learn how to integrate encrypted voice operation into radios using RES and a keyloading device.

Recommended Class Size: 5-15

Estimated Time: 1 Hours
NEO-220 – Advanced Encryption w/ RES

**Prerequisites:** NEO-200

**Description:** Students will learn how to integrate encrypted voice operation into radios using RES and a keyloading device. Students will also learn integrating advanced encryption techniques, OTAR, and Link Layer Authentication.

**Recommended Class Size:** 5-10

**Estimated Time:** 1.5 Hours

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KNG-100 – Basic KNG Portable Radios

**Prerequisites:** NONE

**Description:** A train-the-trainer style class. Students will learn basic radio function as programmed.

**Note:** Special coordination required with system owner or radio programmer.

**Recommended Class Size:** Train-the-Trainer 5-20 User Training Class 5-50

**Estimated Time:** 1 Hours

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KNG-110 – Basic KNG Mobile Radios

**Prerequisites:** NONE

**Description:** A train-the-trainer style class. Students will learn basic radio function as programmed.

**Note:** Special coordination required with system owner or radio programmer.

**Recommended Class Size:** Train-the-Trainer 5-20 User Training Class 5-50

**Estimated Time:** 1 Hours
KNG-200 – Advanced KNG Portable

**Prerequisites:** NEO-100 or NEO-200

**Description:** Students will learn how to firmware upgrade, access the options file, and access the configuration menu.

**Recommended Class Size:** 5-10

**Estimated Time:** 2 Hours

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KNG-210 – Advanced KNG Mobile

**Prerequisites:** NEO-100 or NEO-200

**Description:** Students will learn how to firmware upgrade, access the options file, and access the configuration menu.

**Recommended Class Size:** 5-10

**Estimated Time:** 2 Hours

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KNG-111 – Mobile Installation

**Prerequisites:** NONE

**Description:** Students learn basic concepts for mobile radio installation.

**Recommended Class Size:** 5-10

**Estimated Time:** 1 Hours
KNG-211 – Mobile Remote Installation

Prerequisites: KNG-111 and KNG-210

Description: Students learn basic concepts for standard and hand held control head installation.

Recommended Class Size: 5-10

Estimated Time: 1 Hours

KNG-300 – Field Programming Conventional

Prerequisites: NONE

Description: Students learn basic concepts behind field programming conventional frequencies into the radio.

Recommended Class Size: 5-10

Estimated Time: 2.5 Hours

KNG-130 – Basic KNG2 Portable Radios

Prerequisites: NONE

Description: A train-the-trainer style class. Students will learn basic radio function as programmed.

Note: Special coordination required with system owner or radio programmer.

Recommended Class Size: Train-the-Trainer 5-20 User Training Class 5-50

Estimated Time: 1 Hours
KNG-230 – Advanced KNG2 Portable

Prerequisites: NEO-100 or NEO-200

Description: Students will learn how to firmware upgrade, access the options file, and access the configuration menu.

Recommended Class Size: 5-10

Estimated Time: 2 Hours

ENG-100 – Basic Troubleshooting

Prerequisites: NEO-100 or NEO-200 and KNG-200 or KNG-210 or KNG-230

Description: Basic troubleshooting techniques and how to use radio monitoring software: TRACE.

Recommended Class Size: no more than 5

Estimated Time: 2 Hours

ENG-110 – Mobile Troubleshooting

Prerequisites: KNG-210, KNG-211, NEO-100 or NEO-200

Description: Troubleshoot issues specific to mobile radios.

Recommended Class Size: no more than 5

Estimated Time: 1 Hours

ENG-200 – Trunking Troubleshooting

Prerequisites: NEO-200 and KNG-200 or KNG-210 or KNG-230

Description: Troubleshooting issues that occur on a trunking system. Learn how to use system and radio monitoring software: TRACE, SEEDAT, and AIR RAID.

Recommended Class Size: no more than 5

Estimated Time: 2 Hours
ENG-300 – DFSI Concepts

Prerequisites: NEO-100 or NEO-200

Description: Learn basic Digital Fixed Station Interface concepts and RELM application.

Recommended Class Size: 5-10

Estimated Time: 1 Hours

ENG-400 – AeroFlex Monitor Application

Prerequisites: NEO-100 or NEO-200

Description: Learn how to interface KNG radios with the AeroFlex monitor for automated reading and tuning.

Recommended Class Size: 5-10

Estimated Time: 2 Hours

ENG-500 – Conventional System Planning and Design

Prerequisites: NEO-100 or NEO-200

Description: Students learn design concepts and how to implement APCO P25 conventional digital networking features.

Recommended Class Size: 5-10

Estimated Time: 1 Hours

ENG-501 – Trunking System Planning and Design

Prerequisites: NONE

Description: Students learn design concepts and how to implement APCO P25 trunked digital networking features. Key ideas light fleet-mapping, radio cloning, and zone channel configuration are discussed.

Recommended Class Size: 5-10  Estimated Time: 1 Hours
ENG-510 – Mobile Fleet Planning and Design

**Prerequisites:** NONE

**Description:** Students learn design concepts related to vehicle and customer requirements concerning the Mobile radio.

**Recommended Class Size:** 5-10

**Estimated Time:** 1 Hours

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BK-100 – Basic Legacy Radio

**Prerequisites:** NONE

**Description:** Basic concepts of RELM legacy DPH line of radios.

**Recommended Class Size:** 5-15

**Estimated Time:** 2 Hours

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BK-200 – KNG-S Basic Programming

**Prerequisites:** NONE

**Description:** Basic overview and how to program KNG-S type radios.

**Recommended Class Size:** 5-15

**Estimated Time:** 2 Hours

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BK-300 – KNG-S Firmware

**Prerequisites:** NONE

**Description:** Basic overview on how to install new firmware into KNG-S type radios.

**Recommended Class Size:** 5-15

**Estimated Time:** 2 Hours