

# Completing a QSO in every mode on 5 bands

## Completing a QSO in Every Mode on 5 Bands - Workshop for Beginners

### Group Members:

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### Event Overview:

- **Name of the Event:** Completing a QSO in Every Mode, in at least 5 Bands (CW is optional)
- **Number of Participants:** 5-10 people
- **Level of Experience:** Beginner (participants have just obtained their licenses)
- **Duration:** 1-2 hours
- **Location/Space Needed:**
  - A single shack with a radio station setup.
  - A computer with logging software and digital mode software.

- The space should accommodate all participants comfortably for hands-on radio operation.

## Food:

- **Meals:** Light refreshments like water, soda, and snacks (chips, fruits) to keep participants energized during the session.

## Budget:

- **Do you need money for the event?**
  - No significant costs are required beyond basic refreshments.
  - Use existing club resources for the shack, radios, and software.

## Materials and Equipment Needed:

- A working **ham radio shack** that supports different modes:
  - **SSB (Single Sideband)** for voice QSOs.
  - **CW (Morse Code)** (optional) for those who want to practice.
  - **Digital modes** like FT8 or PSK31, which will require a computer and digital mode software.
- **Paper and pens** for participants to take notes or log contacts manually if necessary.
- **Stopwatch app** (to time QSOs for practice and efficiency).

## Organizer's Preparations:

- **Prepare the shack:** Ensure all equipment (radio, antennas, computer) is set up and tested before the event begins.
- **Software setup:**
  - Check that the **logging software** is installed and configured properly.
  - Verify that the **digital mode software** is working, such as WSJT-X or fldigi.
- Test the radio station on all planned bands (at least 5) to ensure proper operation during the workshop.

## What Participants Need to Bring:

- A positive attitude and willingness to learn.
- No additional materials are required, as all necessary equipment will be provided.

# Workshop Content:

## 1. Introduction to QSOs Across Multiple Modes and Bands (15 mins):

- **Explanation of Modes:**
  - **SSB (Voice):** Introduction to making voice contacts over the radio, highlighting proper etiquette and procedures.
  - **CW (Morse Code - Optional):** Brief introduction to CW for those interested, though it's not mandatory for the workshop.
  - **Digital Modes:** Explanation of digital modes like FT8, including how to set up and log digital contacts using the computer.
- **Band Overview:**
  - Explain the characteristics of different bands (e.g., 40m, 20m, 15m) and why operating on multiple bands can increase the range of contacts.

## 2. Hands-on Activity: Completing a QSO in Every Mode (60-75 mins):

- **Objective:** Each participant will attempt to complete a QSO in at least 3 modes (SSB, digital, CW optional) on 5 different bands.
- **Process:**
  - Participants take turns operating the station.
  - Start with **SSB (voice mode):**
    - The instructor will guide the first participant in making their QSO, explaining proper call signs, signal reports, and logging procedures.
  - Move to **Digital Mode:**
    - The next participant will operate on digital mode (e.g., FT8) using the computer.
    - Guide them through the steps of selecting the band, initiating a QSO, and logging it using the software.
  - **Optional CW (Morse Code):**
    - If participants are interested, let them try making a simple CW QSO. This part is optional for those unfamiliar with Morse Code.
- **Band Changes:**

- After each successful QSO, switch to a different band and repeat the process, allowing participants to gain experience on multiple bands.

### 3. Timed QSO Challenge (Optional - 10-15 mins):

- For those who complete their QSOs quickly, organize a **timed challenge** to see who can complete a contact the fastest while maintaining proper procedure.
- Use the stopwatch app to track the time it takes for participants to complete a QSO on a specific mode.

### 4. Recap and Q&A (10-15 mins):

- **Review Key Points:**
  - Discuss the different modes and what participants learned about operating on different bands.
  - Provide feedback on their QSOs, including any areas for improvement in signal reports, callsign usage, or logging.
- **Q&A Session:**
  - Open the floor for questions, addressing any concerns or clarifications participants may have about operating on multiple modes and bands.

### 5. Conclusion and Next Steps:

- Encourage participants to continue practicing QSOs in different modes and bands on their own time.
- Suggest further resources or events, such as field days or contests, where they can put their skills to the test in a real-world setting.

## Learning Objectives:

- Teach participants how to complete a QSO using different modes (SSB, digital, and optionally CW).
- Provide hands-on experience in operating across multiple bands.
- Ensure participants are comfortable using logging software and operating both voice and digital modes.
- Help participants gain confidence in making QSOs as beginner ham radio operators.

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