

**Course Name****Course Number****MCPA Installation, Operations, and Maintenance Combined Course****W1C****Course Description**

This course provides the student with the instruction and lab experience required to properly install, operate and maintain Hitachi's **M**ulti **C**arrier **P**ower **A**mplifier (MCPA) system. Each student receives instructions on system installation and architecture, verifying proper alarm conditions, maintenance, and troubleshooting the MCPA system. The student also is instructed on how to use the Management System software program and the trouble matrix to isolate troubles in the Power Amplifiers. The course is targeted toward field operations personnel.

Upon completion of this course, the student will be able to verify proper installation and operation, and use the Management Software and trouble matrix to properly maintain the **P**ower **A**mplifiers units. The student is required to take a final assessment that will be factored in with course participation and lab activity to certify successful course completion.

**Objectives**

At the completion of this course, the student will be able to:

- Identify all of the MCPA system components and understand their operations
- Understand the functionality of the MCPA component parts
- Verify the proper installation of the MCPA system
- Verify the proper operation of the MCPA system
- Use the MCPA Installation Guidelines
- Use the Maintenance Software to power on, test and operate the individual Power Amplifier
- Interpret LED indicators
- Use the troubleshooting Matrix

**Prerequisites**

This course requires an understanding of the following:

- Wireless base station operations
- Basic RF test equipment
- Basic knowledge of amplifiers
- Troubleshooting techniques
- Basic PC skills

**Lessons**

To successfully complete this course, the student must complete the following lessons.

1. Course administration
2. General Safety
3. Wireless Technologies
4. Installation guidelines, instructions, and alarm interpretation
5. Installation verification of the MCPA
6. Installation verification of the various MCPA components
7. MCPA System overview, operations, and configurations
8. MCPA module operations
9. Operational guidelines, instructions, and alarm interpretation
10. Using the Maintenance Software to power on the MCPA System
11. Using RF test equipment to test and power on individual Power Amplifiers
12. Maintenance of the MCPA system
13. Trouble identification on MCPA system
14. Final knowledge assessment

**Mode of Delivery** **Length**

Instructor Led

3.0 Days

**Location** **Contact Information**

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