

RFCEC Creator Larry E. Gugle

RF Communication-Electronics (RFCE) Experiences

Forty-five years from 1964~2009

MBABM, MSEE, BSEE, BSET, AASEET

FCC – Commercial Radio Services – First Class Radiotelegraph Operator License (T1)

FCC – Commercial Radio Services – General Radiotelephone Operator License (GROL)**

**[Former: FCC – Commercial Radio Services – First Class Radiotelephone Operator License (P1)]

ISCET – Journeyman Certified Electronics Technician (JCET) Certificate

FCC – Amateur Radio Service – Primary Station License Grant – Primary Station Call Sign K4RFE

FCC – Amateur Radio Service – Amateur Operator License Grant – Amateur Extra Class Operator Privileges

- Commercial Experience:** Twenty-Three years total, consisting of five years from 1964~1969 and eighteen years from 1991~2009 for Commercial Companies, performing Design, Manufacture, Operation and Service of RF Communication-Electronics Equipment in Five - Radio Services and Two - Radiotelephone Services.
- Military Experience:** Thirty years total, consisting of Twenty-Two years Active Duty from 1969~1991 and Eight years Reserve Duty from 1991~1999 for the United States Marine Corps (USMC), performing Operation and Service of RF Communication-Electronics Equipment, in One - Military Radio Service.

RADIO OR RADIOTELEPHONE SERVICE	TYPES OF RFCE EQUIPMENT	EQUIPMENT MODES				DESIGNED EQUIPMENT	SERVICED EQUIPMENT	MANUFACTURED EQUIPMENT	OPERATED EQUIPMENT
		TX	RX	SX	DX				
<u>AMATEUR RADIO SERVICE (ARS)</u>	R, RT, SS/VT-RFPA, T, TM, ANT	YES	YES	YES	NO	YES	YES	YES	YES
<u>AVIATION RADIO SERVICE (AVRS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	YES	NO	NO	YES	NO	YES
<u>CELLULAR RADIOTELEPHONE SERVICE (CRS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	NO	YES	YES	YES	YES	YES
<u>MARITIME RADIO SERVICE (MARRS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	YES	NO	NO	YES	NO	YES
<u>MILITARY RADIO SERVICE (MILRS)</u>	R, RT, SS/VT-RFPA, T, TM, ANT	YES	YES	YES	NO	NO	YES	NO	YES
<u>PERSONAL COMMUNICATION SERVICE (PCS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	NO	YES	YES	YES	YES	YES
<u>PERSONAL RADIO SERVICE (PRS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	YES	NO	NO	YES	NO	YES
<u>PRIVATE LAND MOBILE RADIO SERVICE (PLMRS)</u>	RT, SS/VT-RFPA, TM, ANT	YES	YES	YES	NO	YES	YES	YES	YES
TOTALS		8	8	6	2	4 OF 8	8 OF 8	4 OF 8	8 OF 8
TYPES OF EQUIPMENT & MODE ABBREVIATIONS:						TYPES OF EQUIPMENT & MODE ABBREVIATIONS:			
ANT = ANTENNA						SS/VT-RFPA = SOLID STATE/VACUUM TUBE - RF POWER AMPLIFIERS			
DX = DUPLEX						SX = SIMPLEX			
RT = RECEIVER-TRANSMITTER						T = TRANSMITTER			
RX = RECEIVE						TM = TRANSMATCH			
R = RECEIVER						TX = TRANSMIT			

Larry E. Gugle

RF Communication-Electronics Experience

My **'Primary'** United States Marine Corps (USMC), Military Occupational Specialty (MOS) was in the 'RF Communication-Electronics Maintenance (RFCEM) Field' as a 'RF Communication-Electronics Maintenance Chief (RFCEMC)'.

Primary MOS Duties and Responsibility were:

1. RF Communication-Electronics Maintenance Facility (RFCEMF) Test Measurement Diagnostic Equipment (TMDE) selection: to accomplish Preventative Maintenance (PM) and Corrective Maintenance (CM), of all RF Communication-Electronics Equipment (RFCEE), in a 'Non-Tactical Garrison Environment' or 'Simulated and Actual Tactical Combat Operations'.
2. PM and CM of all RFCEE: used by all 'USMC Units' and 'Other Armed Forces Attached Units' in a 'Non-Tactical Garrison Environment' or involved in 'Simulated and Actual Tactical Combat Operations'.
3. PM and CM of all RFCEMF TMDE.
4. RFCEMF Tactical Field Radio Site (TFRS) planning, location selection and set up.

My **'Secondary'** United States Marine Corps (USMC), Military Occupational Specialty (MOS) was in the 'RF Communication-Electronics Operations (RFCEO) Field' as a 'RF Communication-Electronics Operations Chief (RFCEOC)'.

Secondary MOS Duties and Responsibility were:

1. TFRS RFCEE selection: to accomplish all Emergency Communication Message Traffic for 'USMC Units' and 'Other Armed Forces Attached Units' involved in 'Simulated and Actual Tactical Combat Operations' using MAGTF CIS SCR.
2. TFRS location selection: to accomplish all Emergency Communication Message Traffic for 'USMC Units' and 'Other Armed Forces Attached Units' involved in 'Simulated and Actual Tactical Combat Operations' using MAGTF CIS SCR.
3. TFRS Field Expedient Antenna construction: to accomplish all Emergency Communication Message Traffic for 'USMC Units' and 'Other Armed Forces Attached Units' involved in 'Simulated and Actual Tactical Combat Operations using MAGTF CIS SCR.
4. TFRS setup and RFCEE operations: to accomplish all Emergency Communication Message Traffic for all 'USMC Units' and 'Other Armed Forces Attached Units' involved in 'Simulated and Actual Tactical Combat Operations' using MAGTF CIS SCR.

During a four-year period of my USMC career, I was assigned as an **Instructor** at the **Marine Corps Communication-Electronics School (MCCES)**, teaching the **RF Communication-Electronics Maintenance Course (RFCEMC)** curriculum. This was a **one-year course**, which I instructed for a total of **four years**. **A normal class size consisted of approximately 50~60 students**. Two instructors were assigned per class and normally there was four classes being taught per year.

The RFCEMC curriculum consisted of the following:

1. Three months instruction in 'Fundamentals of DC & AC Electricity'.
2. Three months instruction in 'Fundamentals of Analog & Digital Electronics'.
3. Three months instruction in 'Fundamentals of Radiotelegraphy & Radiotelephony Radio Frequency Communication-Electronics'.
4. Three months instruction in 'Ground Radio', 'Air Radio' or 'Radar' Maintenance.