

Radio Frequency (RF) Technologies

This Radio Frequency (RF) Technologies training covers how to think with and apply electromagnetic theory to understand the physics that go into radio waves enabling advanced technologies. With this course, you'll understand how radio waves pass through the air, what different frequencies are, how radio waves are modulated to carry information, what circuits can do to change that behavior, and why all of that is incredibly important to IT networking.

[CBT Nuggets course material](#) →

WEEK 1

RF Characteristics and Behavior

154 min.

Life Of An RF Signal	7
Wavelength	5
RF Characteristics	8
RF Behaviors	11
Multipath	9
RF Gain and VSWR	12

RF Components and Mathematics

Overview	1
Basic RF Components	5
RF Units of Power	7
RF Mathematics	9
Converting dBm to Power	11
Applying RF Mathematics	7
RF Noise and Sensitivity	5
Wireless RF Planning	5

Antenna Characteristics and Components

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How Antennas Work	9
Beamwidth and Gain	10
Types of Antennas	9
Antenna Radiation Patterns	7
Long Distance Wireless	6
RF and Antenna Hardware	8

WEEK 2

26 min.

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Antenna Mounting	7
Antenna and Transmit Diversity	4
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