

MULTIMEDIA TRAINING KIT

Glossary: Communication Tower

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Backhoe	A versatile excavator with a bucket on a end of an arm.
Corrosion	The chemical or electrochemical reaction between a material, usually a metal, and its environment that produces a deterioration of the material and its properties.
Curing	The process of protecting concrete against loss of moisture during the earliest stage of setting.
EHS	Extra high strength (steel guy wire)
EIA	Electronics Industry Association
Electrolysis	The production of chemical energy by passing an electric current through a liquid.
Footprint	The area on the ground that the tower (incl. guy wires) covers.
Gin pole	Long pole with guy wires and pulleys, which can hoist up and swing around an object being moved and then lower it into a different position.
Ground	An electrical path to earth which should have a low resistance.
Guy	A cable, rope, chain (or similar) that is attached to something to steady or guide it, by providing lateral stability.
Harness	Safety belt used for climbing and working securely in elevated locations.
Hydration (in terms of concrete)	The chemical reaction between water and the cement that makes concrete hard.
Lightning Rod	A metallic conductor that is attached to a high point and leads to the ground.
Mast	A structure that is supported by stays or guys (in engineering terms)

Plumb	To define a vertical element that is perfectly perpendicular to a level surface above or below.
Plumb bob	A lead weight attached to a string, which is used in determining plumb.
Re-bar	Reinforcement bar (made of steel) used to increase the tensile strength of concrete.
Sacrificial anode	Aka galvanic anode, is used to protect metals from galvanic corrosion, by the use of a metal electrode which is itself consumed instead in an anodic oxidation reaction. This technique is also known as cathodic protection.
Surge protector	A device for protecting electrical equipment from power surges or spikes.
Tensile	The force on a body directed to produce strain (extension). It can be considered to be negative compression.
Thimble	A grooved metal reinforcement (in a teardrop shape) placed in a wire rope loop to prevent chafing and cutting.
TIA	Telecommunications Industry Association
Tower	A self-supporting structure (in engineering terms)
Turnbuckle	A device for tightening guy wires.