



# APPLIED PROFESSIONAL TRAINING

A Global Leader in Technology Education



## TEL140: Wireless Communications Technologies

Location: 9477 W. Thunderbird Rd., Peoria, AZ

“Monday/Wednesday Evenings”

WCT Rate Sheet	Class Hours	Tuition	CEU's	College Credits	Section #	Dates	Time
TEL140: Wireless Communications Technologies	40	\$1,585	4	3	12.015	January 9, 11, 16, 18, 23, 25, 30 February 1, 6, 8 2012	7-11pm

### Learning Outcomes

Upon completion of this course, students will be able to:

- Describe the evolution of wireless technology
- List specific examples of wireless communications in the business sector and markets today
- Describe the purpose and use of a WPAN, WMAN, WLAN and WWAN
- Describe purpose and use of the Long Term Evolution and competing technologies that enable it

### Career Benefits

- Gain valuable career development knowledge and skills.
- Provides required skills for future advancement and other job opportunities.

### Course Features

- Interactive classroom training and demonstrations with highly qualified instructors.
- Students participate in hands-on activities using wireless Local Area Networks, routers, transmitters, and receivers. Students learn to configure and troubleshoot wireless network equipment.
- ETA Certification.\*

\*Exam fees are not included as part of tuition.

January 2012						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

  

February 2012						
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26	27	28	29			

  

March 2012						
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

### COURSE DESCRIPTION

**Part A:** A comprehensive overview of the wireless communication environment is provided. The history of radio, early wireless applications, and continued radio application growth is discussed. Wireless technology employed today, barriers, standards, and certifications that influence wireless interoperability is addressed. The transmission of data, the radio frequency spectrum, principles that impact deployment of wireless technology, and maintenance of wireless communication technology are explored.

**Part B:** Wireless Personal Area Network (WPAN), including a review of cordless phones, Bluetooth, Zigbee, Infrared Data Association, and Radio Frequency Identification is examined. Wireless Local Area Network (WLAN) as it relates to current physical and data link layer implementation is discussed. Wireless Metropolitan Area Networks (WMAN) and the value of WiMax are examined. Topics also include fixed wireless communications.

**Part C:** The emerging Long Term Evolution (LTE), competing technologies, and certification within the wireless community are evaluated. This course includes a hands-on lab.

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