



APT COLLEGE

A Global Leader in Technology Education



APT College is proudly represented by CWA and is the preferred provider of training for CWA/NETT Academy.

WORK TOWARD AN ASSOCIATE DEGREE IN TELECOMMUNICATIONS AND GAIN VALUABLE CAREER SKILLS ALONG THE WAY!

TEL105: Fiber Optic Communication (4 credits)

COURSE DESCRIPTION

This course provides a comprehensive understanding of fiber optic systems used in the telecommunications industry including optical concepts and optical components. In a hands-on lab, different splicing techniques are discussed as well as the use of several test instruments to measure fiber optic systems. Students will be engaged in a hands-on lab to demonstrate and test what they have learned. TEL105 and TEL201 prepare students to take certification exams for FO Installer and FO Technician.



TEL201: Advanced Fiber Optic Communication (4 credits)

COURSE DESCRIPTION

This course provides a comprehensive understanding of light propagation, various types of optical fibers, and the main building blocks of a fiber optic system. Students will be engaged in an extensive hands-on lab to apply what they have learned to splice and troubleshoot optical fibers. TEL105 and TEL201 prepare students to take certification exams for FO Installer and FO Technician.

PWR250: High Voltage Protection and Safety for Telecommunications (4 credits)

COURSE DESCRIPTION

Students gain an understanding of high voltage protection equipment used in power substations to maintain the operation of critical telecommunications systems and react accordingly during a fault (power surge, lightning, etc.). It also covers the ways in which telecommunications systems are integrated into the power transmission systems and used to isolate the faulted zones during an outage. Methods to calculate the Ground Potential Rise (GPR) and the Zone of Interest (ZOI) during a fault are thoroughly explained.



EARN A PROFESSIONAL CREDIT-BEARING CERTIFICATE IN FIBER OPTICS ESSENTIALS AND ADVANCED APPLICATIONS BY COMPLETING THE ABOVE THREE COURSES. ALL COURSES TAUGHT LOCALLY.



TEL240: FCC General Radiotelephone Operator License (4 credits)

COURSE DESCRIPTION

This course provides the fundamental knowledge that enables students to pass the FCC Element 1 Marine Radio Operator's Permit exam, and the FCC Element 3 General Radio Operator's License (GROL) exam. FCC Element 1 provides basic radio law and operating practice to become familiar FCC licensed radio communications equipment. FCC Element 3 provides general electrical and electronic knowledge required to repair and maintain radio transmitters and receivers.



TEL250: Solar Power for Technicians (4 credits)

COURSE DESCRIPTION

This course provides a comprehensive understanding of small-size solar photovoltaic systems. The basic electrical principles as they apply to photovoltaic systems are reviewed, and the fundamental solar energy concepts explored. The course explains basic installation methods and troubleshooting for both grid-tied and stand-alone photovoltaic systems, and thoroughly describes the single parts used for their construction. TEL205 prepares students to take the NABCEP certification exam.



To Apply to APT College, visit us at www.aptc.edu or Call Katrina Nidiffer at 615.415.0122

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