

NDTP1610: Neurodiagnostics I

Credit Hours: 6

Clock Hours: 50/80/0

This course covers basic electroencephalography. Students are introduced to basic rhythms with appropriate frequency ranges, amplitudes, morphology, and clinical significance. Theory and application of electrical concepts, recording techniques, and data analysis are introduced as well as descriptions of the analog and digital recording systems including power supply, electrodes, differential amplifier concepts, filters (high, low and 60-Hz), electrical safety, input and output, sensitivity, calibration, and the established standards for clinical electroencephalographs. Lab emphasizes patient hook-up, history taking, handling of patients, instrumentation, pattern recognition, activation procedures, artifacts, safety, OSHA, JCAHO, CoA NDT, CPR, infection control, disaster plans, policy and procedure manuals, chemical use and storage, and clinical correlation of the EEG findings in the neurological disease process. Students become familiar with medical terminology, including specific neurodiagnostic verbiage and interpretation of patient medical record documentation, and special EEG procedures.