Over 1,000 students have attended this popular course by The George Washington University Center for Professional Development. It is intended for those wishing a solid background in the fundamentals of traditional railroad signaling.

Who Should Attend?

Engineers, consultants, and personnel who plan, design, or specify signaling systems for rail transportation. There is no prerequisite for this course but a degree in electrical engineering or equivalent experience would be helpful.

What You Will Learn

Track circuit fundamentals, Automatic Block Signaling, Interlockings, Centralized Traffic Automatic Trail Control, Highway grade crossing systems, Uniform time-warning devices, Car classification yards, Rapid Transit control Systems and more...

Instructor

Rail Systems Solutions’ Chief Technologist, Bob Anderson. Bob is an expert in train control system planning, design, engineering, implementation and project management. His experience includes heavy rail, light rail, commuter rail transit, freight railroads and automated people mover projects, which includes management of various capital improvement projects for the LIRR and NYCT. He has managed the design of signal systems, various ATO and ATS projects, as well as supervisory control and communication systems for General Railway Signal, Harmon Industries and GETS Global Signaling.

This course provides both a systems overview and a detailed understanding of this next generation train control technology. Topics include CBTC technology as well as many new industry challenges encountered as we migrate to these new advanced CBTC & PTC systems.

Who Should Attend?

Engineers, planners, consultants, and personnel who plan, design, or specify train-control systems. Prerequisite: Conventional railway signaling experience or completion of CWEG809.

What You Will Learn

Benefits & limitations of alternative CBTC technologies, new performance standards, interoperability & interchangeability issues, newly emerging safety issues & techniques, RF licensed and unlicensed bands, broken-rail detection, silent train detection, costs Vs benefits, and more...

Instructor

Transportation Systems Design’s President Tom Sullivan and former Director of New Technology Train Control for New York City Transit. Mr. Sullivan is experienced with the design, specification, test and integration of real-time process control systems for the transit and rail transportation industry. He is currently involved with several standard initiatives that promote the use and design of systems based upon open systems and consensus standards.

For more information: www.tsd.org/courses