The United States Department of Energy Office of Electricity Delivery and Energy Reliability (DOE-OE) is pleased to announce a National SCADA Test Bed (NSTB) Advanced Training.

**Overview:** This event will provide intensive hands-on training for the protection and securing of control systems from cyber attacks, including an opportunity to share information and collaborate with others who are involved in control system security. Participants will be able to practice their skills and put their knowledge to the test through a Red Team / Blue Team exercise conducted within an actual control system environment. In addition to the Red / Blue teams, there is an opportunity for managers to participate on the corporate team. Members of this small (4-5) team will perform the functions of management personnel responsible for approving change control requests. Attendees can request to be part of this team, to gain an overall perspective of the simplicities and complexities of the exercise, along with the struggles of the defenders to detect, isolate and repel the aggressors while maintaining critical operations.

**Background:** The Control Systems Analysis Center was established and equipped by the Department of Homeland Security Control System Security Program (CSSP) in 2008. CSSP developed and presented the first Advanced Control Systems Cyber Security Training in May 2007 and has regularly funded this training since. DOE-OE helped support this activity and is able to utilize the Control Systems Analysis Center and fund training for Energy Sector personnel.

**Who Should Attend:** Cyber security developers, IT/Control System cyber security personnel, network /control system engineers and analysts, and managers who operate or are responsible for critical infrastructure.

**Prerequisites:** Each attendee should have practical knowledge with respect to software and control system components; have basic coding skills, and a fairly deep understanding of network details. *Every student attending this course must bring a laptop computer* (with a CD or DVD drive) that they can configure.

**Registration:** Registration is on a first come basis, with a maximum of 2-3 individuals per company. Priority will be given to Energy Sector Asset Owner personnel. This event is limited to approximately 35 people.

**Structure and Agenda:** This event includes 5 days of intensive control systems security training, presentations and exercises.

Day 1 — Welcome and hands-on classroom training on current cyber security techniques and practices

Day 2 — Continue hands-on classroom training on current cyber security techniques and practices. Red team / Blue team overview and assignments. First breakout sessions (cyber tool exercises) begin.

Day 3 — Continue breakout sessions (cyber tool exercises) and separate team strategy session

Day 4 — Red Team / Blue Team exercise (12 hour exercise) where participants will be tasked with either attacking (Red Team) or defending (Blue Team) a small control system environment.

Day 5 — Red / Blue Team exercise debrief, roundtable discussion, and special topics presentations

For additional information on this event contact: gary.finco@inl.gov