

Instrumentation and Control

IC 201

Instrumentation I • 5.0 Credits

The first of three courses focused on the in-depth knowledge required for specific jobs tailored to the instrumentation and control maintenance discipline. It builds upon the general and system component knowledge gained in the first level of the program. Both generic and plant specific equipment are included in the instruction. **Prerequisite: Completion of ELT 154 with a 0.7 or higher. It is also recommended that students complete NT 170 prior to enrollment.**

IC 202

Instrumentation II • 5.0 Credits

The second of three courses focused on the in-depth knowledge and skills needed to maintain instrumentation in a nuclear power plant. Includes training on specific components of the power plant. **Prerequisite: Completion of IC 201 with a 0.7 or higher.**

IC 203

Instrumentation III • 5.0 Credits

The third of three courses focused on the in-depth knowledge and skills needed to maintain instrumentation in a nuclear power plant. Includes training on specific components of the power plant. **Prerequisite: Completion of IC 202 with a 0.7 or higher.**

IC 230

PLC Programming & Computer Interfacing • 5.0 Credits

Designed to prepare the instrumentation maintenance technician to program, trouble shoot, and maintain Programmable Logic Controllers (PLCs) and computer interfaces associated with the nuclear power plant. **Prerequisite: Completion of ELT 171 with a 0.7 or higher.**

IC 250

Instrumentation & Control for Operators • 5.0 Credits

Basic introduction to instrumentation and control processes for operators. Topics include basic control circuits, pneumatic devices, sensors, and hydraulic controls. **Prerequisite: Completion of NT 111 with a 0.7 or higher, and either ELT 111 or ELT 124 with a 0.7 or higher.**

IC 260

Process Instrumentation • 5.0 Credits

Topics build upon basic instrumentation knowledge and skills in previous course. Focus is on developing the knowledge and skills related to valve operations and components associated with strainers and filters. **Prerequisite: Completion of IC 250 with a 0.7 or higher.**