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Up next on ATETV, educational pathways that help you build a future in manufacturing.

Degree programs in manufacturing are designed to give students the hands-on experience they need in multiple disciplines to make them job ready.

Sometimes I call the program industrial maintenance on steroids. It is an industrial maintenance type program. We try to put all the different aspects of industrial maintenance, hydraulics, pneumatics, electrical, controls, computer, mechanical. We try to put them all together. The requirements for the program are basic algebra, English, and self-discipline to be able to work independently, but mostly, to want to work with your hands. We want them with their hands on the equipment.

They will start with basic circuits. We get into some of the mechanical, the draft systems. Then they will move into motor controls one and two. They'll take process control. They'll also move further into their more advanced classes with programmable logic controller.

Multiple one, data one. So it'll be right there. There's a lot of advanced technology such as the robotics. A little more advanced motor controls a lot of integrated technology. Courses aren't taught in silos so that students don't go from one class to the other and leave the knowledge behind.

We apply all in every course - Now how does that relate to what you learned back there in motor controls -

In motor controls one and two, we wire in..as to on here we're doing it on the computer - All the courses intertwine together because you can't have one without the other. They make sure that you understand what you're doing. You know what you're doing before they send you on.

Students are faced with the same type of problems that a student would be faced working on the industry floor. They've seen a little real world without actually being in the real world.

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