

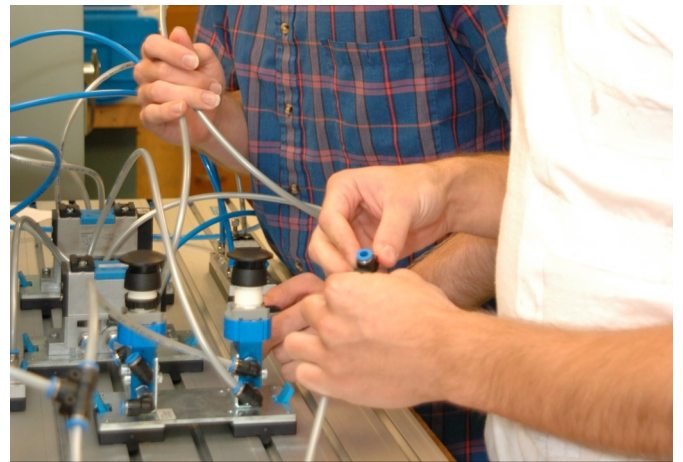
## Industrial Maintenance Certificate

The Industrial Maintenance Technician not only troubleshoots and repairs advanced industrial equipment, but is responsible for the layout and installation. This individual will be versed in electrical, hydraulics, pneumatics, pipefitting, welding, machine repair, and installation as well as motor control systems and PLC control systems.



## Career Outlook

Many manufacturing companies across the country no longer employ segregated trades (electrician, millwright, machinist, etc.) Instead, they are moving to a multi-craft classification that will perform electrical, mechanics, machining, welding, etc. Therefore, positions for general maintenance and industrial maintenance are currently in great demand.



## Industrial Technologies Division



Ronald Scozzari, B.S., M.S.  
Dean

### Questions:

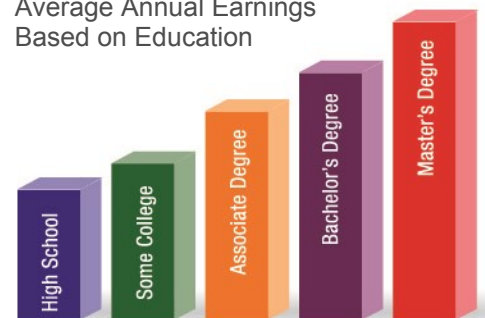
NSCC Admissions Office  
(419) 267-1320  
admissions@NorthwestState.edu

[www.NorthwestState.edu](http://www.NorthwestState.edu)

2016-2017

### Education Pays

Average Annual Earnings  
Based on Education



Based on data from the Bureau of Labor Statistics

NSCC is accredited by:  
The Higher Learning Commission  
(312) 263-0456  
[www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)

# PROGRAM SEQUENCE

<b>First Semester - 1st 8 weeks</b>		<b>Credits</b>
+IND120	Industrial Electricity I	3
IND110*	Industrial Computing	3
IND105	Industrial Safety	2
<hr/>		8

<b>First Semester - 2nd 8 weeks</b>		<b>Credits</b>
+IND132	Benchwork	2
+PLC200	Programmable Controller I	3
IND103	Applied Geometry & Trigonometry	3
+IND232	Machine Repair	3
<hr/>		11

<b>Second Semester - 1st 8 weeks</b>		<b>Credits</b>
+IND121	Industrial Electricity II	3
	Communications Elective	3
+IND134	Industrial Fluid Power	3
<hr/>		9

<b>Second Semester - 2nd 8 weeks</b>		<b>Credits</b>
+IND223	Motors & Controls	3
+IND131	Industrial Pipefitting	3
+WLD110	Introduction to Applied Welding Tech	3
<hr/>		9

**Total Program Credit Hours** **37**

\*Prior to taking IND110, students should have basic computer literacy in Windows and at least one Windows application.

+ Refers to technical coursework. Students must attain a minimum grade of "C" in these technical courses in order to progress in the program and to graduate.

*Gainful employment information for NSCC's certificate programs can be found online at: [NorthwestState.edu/GainfulEmployment](http://NorthwestState.edu/GainfulEmployment). Gainful employment information includes: estimated cost of the program, average student loan debt and types of jobs available.*