



Youth Robot Series

This youth series will focus on the general use of robots in an industrial environment. The 24hr course will review robot types and technology. The base understanding of robot technology will be emphasized by the use of Lego Mindstorm robot products. **The student will be issued a Mindstorm unit to work/program. This unit will become the property of the student after successful completion of the Youth Robot course.**

The student will use the industrial Fanuc robot trainers at NW State Community College to gain an understanding of the industrial use of robots in general. The student will program the Fanuc robot using the hand held pendant. The student will be responsible to develop a working program for an industrial robot. The student will be required to develop a working robot program to simulate a task and pass a post test to complete this course. **The student will receive one credit hour of college credit from NSCC and a certificate upon successful completion of this course.**

Module	Name	Description	Length
A	History of Industrial Robots Introduction to Lego Mindstorm	Review of robot development, pre-test, assembly of Lego Mindstorm robot	4hr
B	Build Lego Mindstorm	Part II Build Lego Mindstorm	4hr
C	Program Mindstorm	Part III Programming Basics	4hr
D	Introduction to Fanuc Industrial Robot and Functionality	Review of Industrial Robots and use of the Fanuc programming pendant	4hr
E	Program Fanuc Industrial Robot	Part II Fanuc Programming	4hr
F	Program Fanuc Industrial Robot and Post-test	Complete Fanuc Programming project and complete post test	4hr

Class held at NW State Community College

Facilitator – Tom Bowes Fanuc content and lab exercises from NSCC course PLC230

