



## CNC Training Lab at Cardinal High School

Middlefield is one of the key manufacturing centers located in Geauga County, Ohio. Employers in Geauga County are having a difficult time replacing the retiring work force with skilled employees. Because of the highly technical skill and precision required in the manufacturing industry, it would be a strategic workforce development move to locate a training facility in Middlefield. Dillen company is projected to expand and will need an additional 400 workers within the next five years.

This proposal focuses on placing a CNC training class within Cardinal School district for training from middle school through high school and post secondary students. Two major tools will be used to provide the necessary resources for this class. An instructor will focus on using HAAS CNC simulators combined with online Tooling University classes which are sponsored by the Society of Manufacturing Engineers. After students have written their programs on their CNC Simulators, the programs will be saved on a USB Jump drive. Students will then take a field trip to Auburn Career Center where they will be able to run their programs on HAAS CNC machines.

The screenshot shows the Tooling University website interface. At the top, there are navigation links: FIRST TIME REGISTRATION, CONTACT US, TECHNICAL SUPPORT, ADMIN LOGIN, and STUDENT LOGIN. Below these are the logos for TOOLINGU and sme, followed by menu items: PRODUCTS, INDUSTRIES, SERVICES & SUPPORT, COMMUNITY, and COMPANY. A large banner features the text "CNC DEPARTMENT" in yellow and orange, with a background image of two people in a workshop. Below the banner are three buttons: CONTACT US, FREE TRIAL, and ONLINE TOUR. The main content area is divided into two columns. The left column, titled "Department Overview", lists "Department Name: CNC Department" and "Number of Classes: 17". Below this are two links: "Take a Free Trial Class" and "Contact Us". A prominent orange button labeled "Go To Catalog" is also present. The right column, titled "Department Description", contains a paragraph explaining that CNC stands for computer numerical control, is a versatile system for controlling tools and parts, and lists common machine types like machining centers and lathes.

Department Overview		Department Description
Department Name:	CNC Department	<p>CNC stands for computer numerical control. It is a versatile system that allows you to control the motion of tools and parts through computer programs that use numeric data. CNC can be used with nearly any traditional machine. The most common CNC machines found in the machine shop include machining centers (mills) and turning centers (lathes). These classes will explain operations performed with the help of CNC. The content is for individuals who need to understand what CNC is and how it works. Content covers the basic machines as well as programming for the more experienced user.</p>
Number of Classes:	17	

## CONTROL SIMULATORS



Use the Haas Control Simulator for classroom training and/or on-site control demonstrations. Teach programming and operations using a real, fully upgradable Haas control panel and keypad. Includes simulated dry run graphics, tool length measurement, true DNC and USB convenience. You can also program and download directly from the Control Simulator to Haas machines.

### **Control Simulator Module Dual Machine**

Part: CSMD

Price: \$1,695.00



[Control Simulator Datasheet](#)

**DESCRIPTION OF NATURE OF CONSORTIUM RELATIONSHIP**

An education consortium is an association of two or more school districts, school buildings, community schools or STEM schools pooling resources to share human and material assets and link academic and administrative resources with the objective of participating in the development and execution of a Straight A Fund grant application. A grant application submitted by an education consortium uses the shared resources of its members to achieve the goals of the grant application through cooperative purchasing, course sharing, professional development, information technology integration and/or faculty and staff networking. Unlike a partnership, each member of an education consortium is responsible for ensuring the Straight A Fund grant application is developed and executed according to the terms of the grant agreement with the Straight A Program Governing Board. Like individual grant applicants, an education consortium can partner with educational stakeholder(s) via a Partnership Agreement to accomplish the goals of the grant application.

In order to ensure the effective implementation of the Straight A Fund throughout the state, each education consortium must identify each member of the education consortium and attach a description of each respective member's role and responsibilities. Additionally, a separate Description of Partnership must be submitted for any educational stakeholder(s) partnering with the education consortium.

Each member of the education consortium is responsible for the following assurances:

1. Be knowledgeable about the consortium's Straight A Fund grant proposal and application, including advocacy of the Straight A Fund program.
2. Sign and accept the Straight A Program Grant Assurances.
3. Maintain familiarity with the consortium's members and services to enhance the proposal, including specific goals and practices.
4. Demonstrate a commitment to clear roles and responsibilities of each consortium member as it relates to the grant proposal and application.
5. Sustain consistent communication among consortium members and stakeholders with a shared vision of the goals of the grant proposal. This includes participating in regularly scheduled meetings for project management and identifying areas for improvement.
6. Ensure consortium members have appropriate access to data for purposes of grant program improvement and evaluation in accordance with state and federal law.
7. Develop a clear project management plan to sustain the grant project over time.

**Education Consortium Signatures**

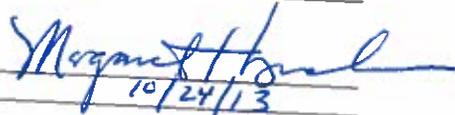
Lead Applicant/Consortium Member

Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 IRN: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_  
 Zip: \_\_\_\_\_

Sign: \_\_\_\_\_  
 Date: \_\_\_\_\_

Secondary Applicant/Consortium Member

Name: MARGARET T. LYNCH  
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 State: OH  
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Sign:   
 Date: 10/24/13



Consortium Member (if applicable) 

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
IRN: \_\_\_\_\_  
Phone: \_\_\_\_\_  
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