

City of Erie School District

Program Title: Advanced Manufacturing Technology Institute

Goals/Objectives: Using real world production projects to teach the advanced manufacturing process and STEM concepts.

Description:

We created a school based company. We hired students and employees, who designed a prototype and mass produced products for sale.

Evaluation Tools & Procedures:

Get original schematics of Carronade, Scale down to replica.
Create Separate Carronade CNC g-Code.
Make final mockups.
Refine production process to decrease cycle time.
Work with LSS workers to create Assembly process.
QC Carronades production 300.

Results of Activity:

The Advanced Manufacturing Center took on the task of building 300 Replica Carronades of the carronades that were aboard the Brig Niagara during the battle of Lake Erie 200 years ago. We chose this project in accordance with our county wide celebration of the battle of Lake Erie Perry 200.

Resources and Other Related Information:

Pictures and description - <http://www.eriesd.org/domain/1523>

Contact Information:

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