

Manufacturing Month



Exploring the Marvels of Manufacturing



in Northwestern PA
October 2020

A Career Exploration Program for Grades 6-12

(Cameron, Clearfield, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Potter, Venango, Warren)

KEY SPONSORS



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How the Program Works


WRITE
A really short article


WATCH
Some really cool videos


ANSWER
Just a few questions


SUBMIT →
For a chance at some awesome prizes

UPLOAD AT:
nwirc.org/mfgmonth
For Grades 6-12



Awesome Prize Pool
(100 Prizes)

Apple AirPods | JBL Clips Blue Tooth Speakers | Powerbeats Earphones
Beats Solo Pro Headphones | Apple Gift Cards | Makeblock mBot Robot Kits
3D Printing Pens | Amazon Gift Cards | Drones | Sphero Mini

(Prize winners selected by random drawing. Two winners will be drawn in each of the 14 counties for Amazon Gift Cards. Winners for each of the remaining prizes will be drawn from ALL entries.)

All participants will receive an Exploring the Marvels of Manufacturing certificate.

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Entry Form & Parent Consent

Deadline for submission is October 31, 2020



The entry form and parent/guardian consent should be completed and submitted with **Step 1 and Step 2** of the program elements. Participating students should be in 6-12 grade within the 14 counties listed on the cover page.

↑ Upload documents at the program portal from October 2-31, 2020 at: www.nwirc.org/mfgmonth or mail to: NWIRC, 8425 Peach Street, Erie PA 16509 (must be postmarked by Oct 31, 2020).

Student Entry Information

Name _____

Address _____

City, State, Zip _____

School _____ Grade _____

Parent/Guardian Consent

The student (listed above) is in 6-12 grade and I give permission for them to participate in **Exploring the Marvels of Manufacturing** by submitting a short article and worksheet upon their exploration of manufacturing careers. I understand that they will receive a certificate for their participation and will be eligible for random prize drawings for their program entry. I also understand that excerpts from my child's article, along with their first name and school name, may be used in press releases, or social media to promote manufacturing career awareness.

Parent / Guardian Name _____

Parent / Guardian Signature _____

Date _____

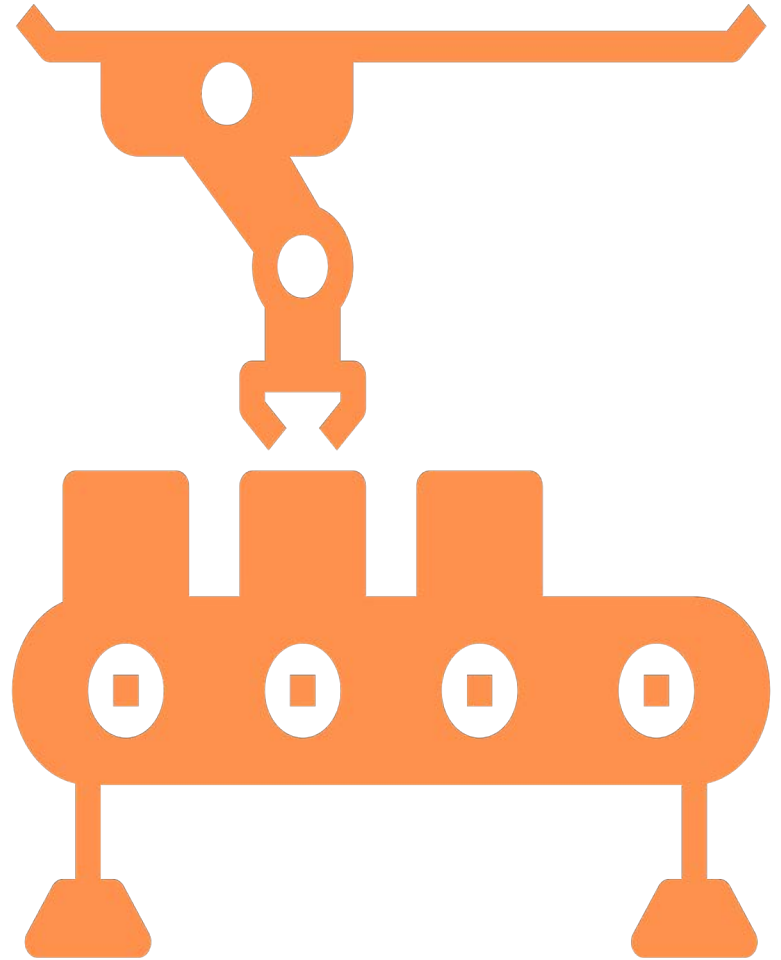
No purchase necessary to enter. Winners will be selected by random drawing from all entries received electronically by (or via mail, postmarked by) October 31, 2020. Two winners will be drawn in each of the 14 counties for Amazon Gift Cards. Winners for each of the remaining prizes will be drawn from ALL entries. Prizes are final and can not be exchanged for cash or different item, and are not transferable. Odds of winning a prize will be based on the number of submissions received. Prize drawing will occur on November 9, 2020. Winners list will be posted at www.nwirc.org/mfgmonth. Prizes will be shipped direct to the students' home address. Participation certificates will be mailed, either to the student's school or direct to their home address.

Step 1 Short Article

How Has Manufacturing Touched Your Life?

Tell us your story. Write a short article describing how manufacturing has touched your life.

Examples: Do you have a parent or relative who works at a local manufacturing company? Do you have a favorite product that you can't live without? Have you visited one of the manufacturing companies in your town? Is your community stronger because of a local manufacturing company? Get creative, the possibilities are endless!



Article should be no more than 400 words!

Please type or print clearly on a separate page.

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Step 2 Lesson Plan Worksheet

INSTRUCTIONS

Next Page →

1 Visit the **What's So Cool About Manufacturing** website

WhatsSoCool.org

2 Watch at least 3 videos (2 minutes each) to help answer a few questions on the following page. All of these videos were created by 7th/8th grade students featuring manufacturing companies in their own backyard.

Choose any of the videos to view from the 2020 Contests (or Previous Contests) tab. Perhaps a video featuring a cool manufacturing company you want to learn about or one located in your town!



3 **Answer**
the worksheet questions! →

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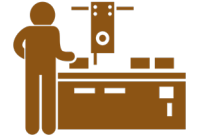


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See instructions on previous page. After watching 3 videos on the Whats So Cool About Manufacturing website (WhatsSoCool.org), answer the following questions.



1

Name 3 different local manufacturing companies, the product they make, and at least one job title highlighted in each video. (13.1.C,D, F,G*)

	Company	Product	Job Title
1			
2			
3			

2

Think about a product being made by one of the manufacturing companies. How could that product be used if someone was to open or start their own business? For example, someone can sell Nestlé Waters at their restaurant. (13.4. C*)



Product: _____

Business idea: _____

3

Think about a skill you need in a school subject or after school activity, and explain how someone could use similar skills in a manufacturing job. (13.1 A,B,E,F,G,H 13.2E, 13.3A,B,C,E,G*)



Subject/Activity	Career Preparation
Example 1: Math Example 2: Basketball	Use to calculate how much product needed Work together as a team

*Indicates Career Standard

Educators Toolkit

Ideas for enhancing

Exploring the Marvels of Manufacturing

for your own class or school

Check out more ideas at
www.nwirc.org/mfgmonth

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Be creative! If your classroom or school creates a cool Marvels of Manufacturing activity, please let us know so that we can spotlight your school and share it on our website!

- 1 Consider having your students participate with ***Exploring the Marvels of Manufacturing***, making a submission as a class assignment or an extra-credit project.
- 2 If you are not able to plan as a class activity, be sure to provide the information for your students in case they want to participate on their own. The digital packet can also be downloaded at www.nwirc.org/mfgmonth.
- 3 Select students to read their short articles during morning announcements during the month of October and beyond.
- 4 Make videos of students reading their essays to use on the school's social media.
- 5 Initiate a competition among the classrooms at your school (or schools within your District) for the highest number of student submissions.
- 6 Establish a panel of judges at your school for evaluating the student articles, and award prizes for their creativity.
- 7 Have your class participate in the live, interactive webinar featuring ABB Robotics and Edinboro University (or watch the recording). Email lknoll@nwirc.org for details.
- 8 Reach out to a local manufacturing company to schedule a Zoom Video Session for your class to interview them or get a virtual tour.



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