



## Summer Manufacturing Institutes

***“Americans want more manufacturing in our country, but they don’t want their kids to do it.” - Senator Sherrod Brown***

**Goals:** To introduce students to manufacturing careers by developing a curriculum based on the Plan-Do-Check-Act model, and provide hands-on activities and direct interactions with local manufacturers.

To introduce students, parents, and community partners to Senator Brown’s manufacturing initiatives and policies -- specifically, his efforts to revitalize American manufacturing and innovation.

***The ultimate goal is to introduce kids and their parents to an up-to-date, real-world understanding of American manufacturing, while teaching them the role manufacturing has played -- and continues to play -- in building and maintaining our economy and our middle-class.***

**Overview:** Each county will develop a Summer Manufacturing Institute (SMI) day camp to suit the needs and resources of the local community. Smaller counties, with fewer manufacturing options, may choose to hold the camp for half of the day or only three days of the week. Curriculum is based on introducing the skills and training that would be needed to pursue careers with local companies.

### **Requirements for EACH camp:**

**Students visit businesses that make something tangible.** The camps should promote and educate students about our manufacturing sector.

**All students are eligible.** Registration is open to all and no student is turned away if slots are still available. If tuition is charged, scholarships must be available for families who cannot afford to pay. Please check with manufacturers to determine their ability to accommodate a person with a disability in their facility.

**Meals are served to all students.** All students will receive a lunch and, depending on the camp hours, snacks and breakfast.

**T-shirts, or other memorabilia for the students, must be American made.**

**Target Population:** Students aged 11-14 years old. This middle school group is where children can be reached and taught to think differently about manufacturing through exposing them to modern facilities and processes. The ideal camp size is approximately 20 students per county.

### **Partner Organizations and Responsibilities:**

- **Senator Brown’s Office:** Convene the groups to coordinate the camp, secure video from Senator Brown introducing students to the importance of American manufacturing, provide certificates

for all the students who participate in the SMI, assist with advertising/marketing, and engage with other agencies to provide information and support.

- **Chamber of Commerce, CIC, Community Foundation, Local Development Office:** Facilitate outreach to manufacturers in the County, identify additional site visits to enhance the recreational aspect of the camp (museums etc), and identify and secure funding.
- **Local Community College or Career Center:** Develop camp curriculum, help chaperone students, provide location/materials for post-visit activities, develop budget, facilitate scheduling visits/tours, and help with advertising/marketing.
- **YMCA or similar organization:** Licensed child care provider, curriculum development, volunteer chaperones, provide location for pick up/drop off, develop budget, and help with advertising/marketing.
- **Local Schools:** Provide transportation, recruit students to participate, develop curriculum, and provide space to meet.
- **Local manufacturers:** Leadership role in camp development

### ***Summary of Proposed Schedule and Events for 2016 Camp***

In this model, students will participate in a five-day camp from 8:30am-3:00pm. The activity schedule can be adjusted as needed.

The activities can include tours of local manufacturers (list to be developed locally) and hands-on activities that build upon what the students see at the facilities. Students will also have the opportunity to demonstrate their understanding of the Plan-Do-Check-Act process and may keep a journal to reflect on their experiences and what they learn during the SMI.

A slideshow of the students' activities may be played during a final day showcase.

### ***Evaluation***

Communities may choose to have students complete a pre-and/or post-camp assessment of their overall satisfaction of the camp, level of interest in manufacturing careers, impressions of manufacturing careers, and understanding of Science and Mathematics.

Parents may be given a similar survey focused on their impression of manufacturing as a career choice for their child and overall satisfaction with the camp.

### ***Press/Media Plan***

Senator Brown's office will alert media, utilize the newsletter system to send geo-targeted emails to alert parents about the camp, and promote the camp on social media.

Senator Brown's office and local partners will develop the recruitment flyer for participants.

### ***Partner/Sponsor Suggestions***

Community college president or college  
workforce development staffer  
Chamber of Commerce leader  
School superintendents/guidance counselors  
Director of the local career center  
Local manufacturers

Workforce development professionals  
Local elected official  
Community foundation leader  
YMCA or YWCA members  
Labor organization leaders and members  
Sector or trade associations

## Summer Manufacturing Institute 2016 – Sample schedule

### Monday

8:30-9:15 Check-In, Breakfast, Introductions  
9:30-11:15 Financial Literacy, Exhibit Challenges, Free Exploration  
11:15 Bus Pick-up  
11:30-12:15 Lunch & Learn  
12:15-1:00 OSHA training  
1:00-2:15 Facility Tour  
2:15 Bus Pick-up  
2:30-3:15 Journaling  
3:15-3:30 Dismissal

### Tuesday

8:30-9:00 Check-In, Breakfast, Introductions  
9:15-9:45 Facility Tour  
9:45-11:00 Facility Tour (Related)  
11:15-2:30 Lunch & Local Educational visit  
2:45-3:15 Journaling  
3:15-3:30 Dismissal

### Wednesday

8:30-9:15 Check-In, Breakfast, Introductions  
9:30-10:45 Facility Tour  
11:00-12:15 Facility Tour  
12:15-12:45 Picnic Lunch  
1:00-2:30 Facility Tour  
2:45-3:15 Journaling  
3:15-3:30 Dismissal

### Thursday

8:30-9:15 Check-In, Breakfast, Introductions  
9:15 Bus Pick-Up  
10:00-11:45 Facility Tour  
11:45-12:15 Lunch  
12:15 Bus Pick-Up  
1:00-2:30 Facility Tour & Activity  
2:30 Bus Pick-up  
2:45-3:15 Journaling  
3:15-3:30 Dismissal

### Friday

8:00-9:30 Family Breakfast & Reception  
10:00-11:30 Student presentations  
11:30-12:00 Lunch  
12:00 Dismissal