




# The Heavy Metal Summer Experience




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TRADE SHOW EDUCATION



## This session is eligible for 1 Contact Hour.

For these hours to appear on your certificate, you must:

- Have your badge scanned at the door
- Attend 90% of this presentation
- Fill out the online evaluation for this session

## Play Video

## History of Heavy Metal Summer Experience

First summer – 2021 – 2 camps and 28 students. We have placed 6 of these student in the trades.

Second summer – 2022 – 11 camps across the country – about 170 students. We have approximately 32 placed in the trades.

Third summer – 2023 – we have 21 camps across the US and one in Canada. Approximately 400 students projected.

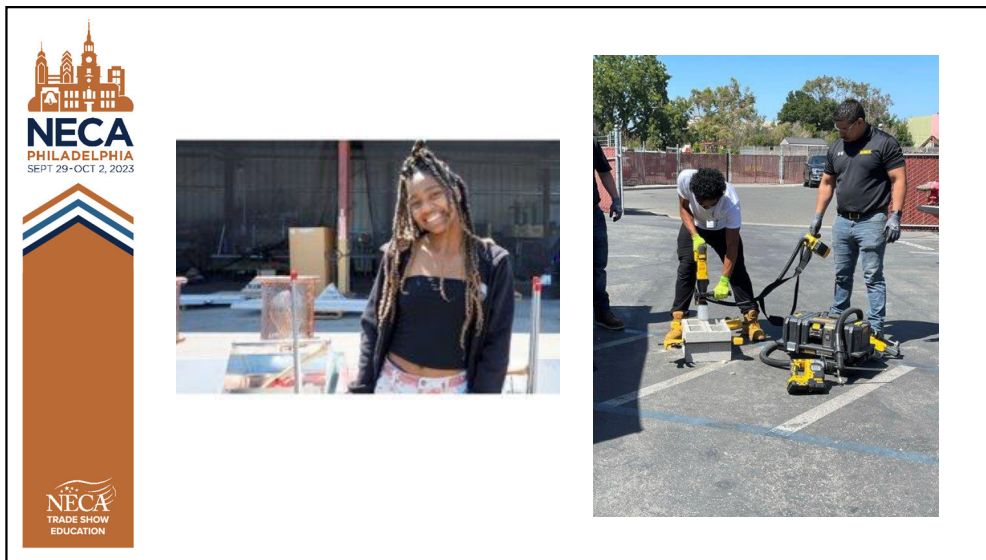
HMSE formed a non-profit in April of 2022  
[www.hmse.org](http://www.hmse.org)







<p><b>ALABAMA</b></p> <p>6/8 - 8/8 1. HARDY CORPORATION Birmingham, AL</p>	<p><b>GEORGIA</b></p> <p>6/8 - 7/20 8. RF KNOX Smyrna, GA</p>	<p><b>NEBRASKA</b></p> <p>6/3 - 6/23 16. MMC CONTRACTORS Omaha, NE</p>
<p><b>CALIFORNIA</b></p> <p>6/27 - 7/20 2. ACCO ENGINEERED SYSTEMS San Leandro, CA</p> <p>6/13 - 7/27 3. SILICON VALLEY MECHANICAL San Jose, CA</p> <p>7/17 - 7/21 4. SMACNA SACRAMENTO Sacramento, CA</p> <p>6/19 - 6/23 5. SOUTHERN CALIFORNIA SHEET METAL JATC City of Industry, CA</p> <p>6/12 - 6/30 6. SUPERIOR DUCT FABRICATION Pomona, CA</p> <p>6/13 - 7/28 7. WESTERN ALLIED MECHANICAL Union City, CA</p>	<p><b>IOWA</b></p> <p>6/12 - 7/21 10. THOMPSON SOLUTIONS GROUP Sioux City, IA</p> <p><b>MASSACHUSETTS</b></p> <p>7/24 - 7/28 11. JC CANNISTRARO Boston, MA</p> <p><b>MICHIGAN</b></p> <p>6/26 - 7/26 12. DEE CRAMER Saginaw, MI</p> <p>6/27 - 7/27 13. DEE CRAMER Wixom, MI</p> <p><b>MISSOURI</b></p> <p>7/18 - 7/20 14. SMACNA &amp; MCA OF KANSAS CITY Kansas City, MO</p> <p>6/12 - 6/24 15. ST. LOUIS SMACNA St. Louis, MO</p>	<p><b>NEW YORK</b></p> <p>7/11 - 8/17 17. JOHN W. DANFORTH Tonawanda, NY</p> <p><b>NEW MEXICO</b></p> <p>6/29 - 7/21 18. SMACNA + MCA OF NM Albuquerque, NM</p> <p><b>WASHINGTON</b></p> <p>6/27 - 7/20 19. HERMANSON COMPANY Kent, WA</p> <p>7/11 - 8/17 20. JOHANSEN MECHANICAL INC. Monroe, WA</p> <p>6/27 - 8/10 21. MCKINSTRY Seattle, WA</p> <p><b>ONTARIO, CANADA</b></p> <p>7/10 - 7/21 22. LANCASTER GROUP, INC Hamilton, ON, Canada</p>



## Hosting a Camp – What you provide

- A Lead Coordinator
- Instructors and Volunteers
- Materials for the projects
- Safety director and supervision
- Physical Shop location
- Graduation Ceremony – food, decorations and certificates
- Bus or transportation if needed to take tours of the JATC training halls



## What HMSE provides for your camps

- a) PPE with HSME Logo
- b) Boots from Redwing\* (we may ask local MCAA/SMACNA/Neca chapters to help sponsor these)
- c) Tool bags for the students to take home
- d) Release & Liability forms samples for you to customize
- e) Marketing collateral for you to customize
- f) Playbook with sample projects and materials list
- g) Template for award certificates, safety JHA's, sign-in sheets, etc.
- h) Award Metals (we will make these and ship to you).
- i) Assistance with finding the students
- j) A Liaison to be your contact person
- k) A Banner with national sponsors
- l) T-shirts



## Recommended Timeline



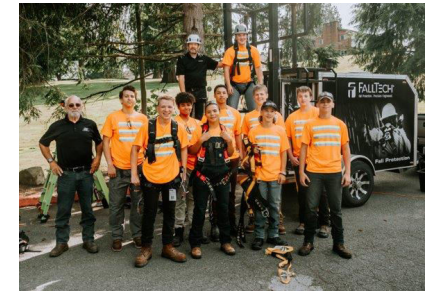
- October 1 – 31<sup>st</sup>** - Commit to running a camp
- Early Nov** – Start to contact High Schools/CTE programs and Non-profits for student recruitment
- Dec 1<sup>st</sup>** – HMSE will assign a Liaison to each camp.
- January 30<sup>th</sup>** – HMSE needs an approximate count of students so we can finalize the number of tool bags and PPE. Also need your camp schedule (IE start date and graduation date).
- April** – Tools and PPE should start to arrive at your sites. Also you should be getting student applications and permission slips filled out by the end of the month.
- May** – Need to finalize students, start getting boot sizes, all paperwork filled out.
- June** – Camps start
- July/August** – Graduations
- September** – Share new projects, lessons learned etc for Rev 3 of Playbook



## Finding the Students

Finding the students is key. Starting early is also critical – letting people know about the camp. The following are some ideas:

- a) Non-Profits such as:
  - i. Boys and Girls Club
  - ii. Junior Achievement
  - iii. Foster Care system
  - iv. All-star Kids
- b) School Districts
  - i. CTE Programs
  - ii. Continuation School programs
  - iii. Gap Year Programs
  - iv. Home School programs



FOCUS ON UNDERSERVED COMMUNITIES



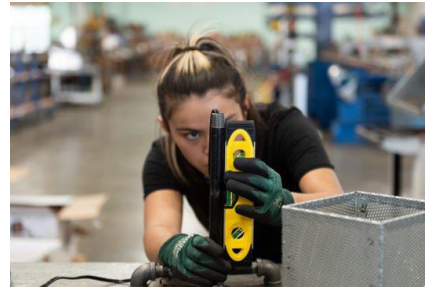




## Fundraising

Possible targets for Fundraising:

- a) Local MCAA/SMACNA/NECA Branch
- b) Local SMART/UA or IBEW JATC (they might be able to fund your instructors)
- c) Vendors – Local vendors in your area
- d) In-kind donations – such as conduit or wire for the projects
- e) Local foundations
- f) Golf Tournament



## What is in the Playbook?

- Logistics
- Finance
- Sample schedules
- Lessons Learned
- How to recruit the students (new)
- Sample forms – includes applications, permission slips, media releases, sample JHA forms and hot permits, sample graduation certificates, etc.
- Appendix with many sample projects





## Example Project

**PROJECT 3:  
TOOL TRAY**

**HSME - SHEET METAL SHOP  
BY HARVEY LAPLAIN**

**GOAL**  
Learn the processes and procedures to safely manufacture sheet metal products. Use a tool free, assembly of proper sequence through processes like bending, forming, and cutting.

**ABSTRACT**  
In these lessons, you are going to learn a variety of processes in the sheet metal manufacturing process. We'll be the discovery of shop formulas, Harvey L&P formula.

You will learn the top and side of a tray in the workshop. We will make a metal tray for home and which should not be done while working in a manufacturing environment.

**Overall**, the goal of this project is to teach you about the processes of manufacturing sheet metal parts in a shop manufacturing setting. When you complete each project, you should feel proud as you are able to successfully manufacture a functional product from a few pieces of metal.

**TIME TO COMPLETE**  
minutes  
1. Cut Three of Sliding - 1 min  
2. Forming the tool tray 40min - 60 min  
3. Assembling the tool tray 40 min  
Total: 100 min

**REQUIRED MATERIALS**

Quantity	Item	Item
120	2x4x4	Galvanized Steel
120x180	1/2"	60# Concrete

**STARTING FORM**

**METHOD OF PROCEDURE**  
minutes

- Review safety procedures related to the manufacturing of galvanized metal parts.
  - Wear PPE
  - Large Shop/Manufacturing Equipment
- Check-in and prep material
- Plan the order of operations for making a toolbox.
- Run forming processes
  - Run through the roll forming process.
    - Band the base 90 degrees
- Assemble parts and accessories
  - Align the three main pieces together to form the toolbox by hammering Pittsburgh together.
  - Use Hammer
  - Double handles.
  - Install handles with tools

**CONGRATULATIONS!**  
PROJECT 3: COMPLETE

## Graduation

We want to make graduation day a very special day for the students and their parents.

This is the day they get their certificates and medals as well as take their tools and projects home. They can show off to their folks.

Make this a celebration with your whole family as it makes all the volunteers feel good.





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Complete the Online Evaluation

