

The Historic Morganton Festival, Inc. is excited to announce the dates of the Fall 2022 Morganton Arts Design and Engineering (MADE) Competition. The event will take place on Friday, October 21st 2022 on the Courthouse Square in beautiful downtown Morganton. Area Middle and High School students will compete over the two days in the Assembly Line Challenge, an on site engineering and design competition. .

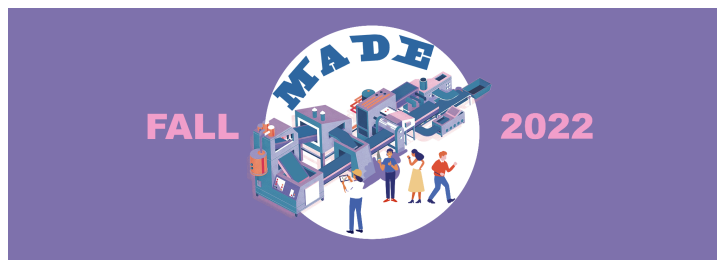
MADE is one of the most successful collaborations between education and industry partners and it gives Burke County students a chance to experience STEAM-based activities that build skills relevant to many of the area industries. MADE encourages students to think outside of the box and engages participants in critical thinking, design, engineering and innovation.

The Fall 2022 Assembly Line Challenge is now taking entry forms with a total of 15 school team spots available (5 students max per team - option of one team per school). In order to reserve your space, please contact Abby Nelson at [anelson@morgantonnc.gov](mailto:anelson@morgantonnc.gov) or 828-438-5280. Spaces are limited and are first come, first serve.

Winning teams in both the middle and high school division will receive prize packages for 1st (\$750) 2nd (\$500) and 3rd (\$250) place finishes. Prize packages totaling \$3,000 go directly to the classroom to further technology education. In addition, each lead teacher (one per team) will receive a \$250 stipend.

The Fall 2022 competition is generously supported by Work in Burke, City of Morganton, Continental, Leviton, Ekornes, Opportunity Threads, and Case Farms. Supporters are Burke County Public Schools, Historic Morganton Festival, and TOSS

[www.morgantonfest.org/made-competition](http://www.morgantonfest.org/made-competition)



## M.A.D.E. Challenge

This year's MADE competition will be an on site challenge where competing teams will create an assembly line on site to efficiently, accurately and artfully build a preselected product.

This year's competitors will be given a digital technical drawing packet of the item to be built the Monday before the competition date. This will include tools that will be available on site as well as the exterior dimensions of the item to be built. Teams will use this information as well as practice time on site to create an efficient assembly line process to produce the product.

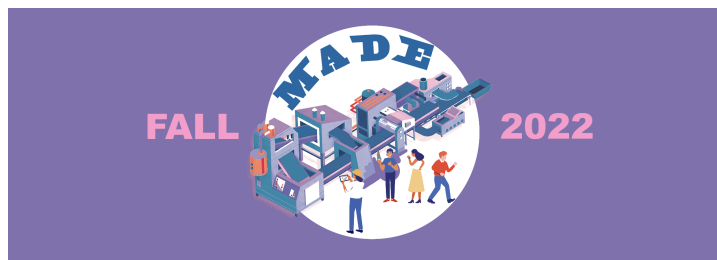
Participants will be judged on number of objects produced, dimensional accuracy of the build as well as the aesthetics of the final products.

### General Information and Expectations

- Teams will show up with a reasonable knowledge of tools, tool safety and manufacturing.
- Teams will be allowed to practice, adjust and tweak their assembly line processes before the "official" testing timed run begins.
- Teams will be allowed to move and position any station of their assembly line as they see fit. Tables for the manufacturing process can be adjusted given that they do not interfere with other teams.
- Areas with sharp tool use must be kept separate from the assembly area in order to create a safe working environment.
- The technical drawing packet will be sent out to all teams the Monday before the competition. What you do with that information is up to you.
- Each team will have a member that is more geared toward the arts. For an item to be counted it must have an artistic feature (stamp, paint, drawing) on it.
- Teams will be capped at five total members.
- Team can create jigs in order to speed up the process of assembling, drawing, cutting etc.
- Teams will have four sets of materials. One for testing, one for creating jigs, one to develop the visual/artistic features and one for the final manufacturing event.

### General Work Area Description

- Each team will have a dedicated area of three long tables arranged in a line. These can be moved and adjusted as long as they do not interfere with other teams.
- Depending on the weather of the day, teams may be able to spread out from the tented area.



- Electricity will be provided.
- Needed tools, equipment and safety items will be provided as well.

### **Coach/Team Sponsor Expectations**

- Coaches will assemble and bring a team that is comfortable using hand tools (hand saws, knives, drills). It is recommended that teams have a wide range of skills including design, assembly and a systems mentality.
- Coaches will be expected to be on site and supervising throughout the event creating a safe and fun atmosphere for all participants.
- Coaches are expected to facilitate but not directly guide their teams to solutions. This is a competition for the students to shine, not the coaches.
- Coaches will make sure that their team members do not disrupt other teams and keep a safe working distance at all times.

### **On Site Supplies**

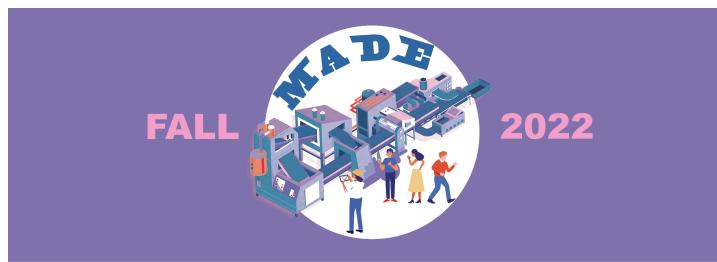
- MADE will supply all materials to be used in the manufacturing of the product.
- MADE will supply appropriate tools and safety equipment.
- Tools will be in the realm of hand saws, drills, hobby knives, box cutters, adhesives and fasteners.
- LUNCH!!! Lunch will be provided for participants. Details to come.

### **What You Bring**

- Your team.
- Any snacks, drinks or other refreshments you want.
- A good attitude.
- Personal safety equipment if desired. (Your own safety glasses, etc.)

### **Team members**

- Each team will consist of a maximum of 5 members and a teacher/supervisor who will help facilitate safety and time schedules.
- Team members should be comfortable with basic tool use and safety.
- It is recommended that teams utilize a diversity of skills to handle all aspects of the competition.
- Each team member must be present for safety instruction at the beginning of the competition.



## Interested? Next Steps

- Sign up with the forms below to reserve your place and email to Abby Nelson at [anelson@morgantonnc.gov](mailto:anelson@morgantonnc.gov)
- The spots will be first come first served.
- You can reserve your team spot even if you do not have all team members lined up yet.
- The deadline on team member names and t-shirt sizes is October 3rd. If there is not a submission your spot will be given to the next team in line.
- The Official 2022 M.A.D.E. Design Brief will be delivered on Monday, October 17th,. This will include the final rules for the build as well as specific measurements of the item and associated materials. Start brainstorming and discussing assembly features with your students!

## Competition Days Tentative Timeline

Rain Date Policy - Event takes place Rain or Shine!

Time	Min	What
8:00- 9:00	1 hr	Arrival, set up, rules and safety meetings
9:00- 12:00	3 hrs	Planning and trial runs
12:00-12:30	30min	Lunch (Provided by MADE)
12:30 -2:00	1.5 hrs	Fine tuning the process
2:00- 2:30	30 min	Break, student interviews
2:30-3:30	1 hr	Production Run
3:30-4:30	1 hr	Judging and scoring
4:30-5	30 min	Announcement of Winners, photos
5:00		Breakdown and dismissal

\*Please note that details may change as the design challenge is created. All teams will be notified in advance of changes.



## Participant Entry Form

M.A.D.E. Team Name: \_\_\_\_\_

School Name: \_\_\_\_\_

Contact Name (lead teacher + t-shirt size): \_\_\_\_\_

Email: \_\_\_\_\_

Phone: (Office) \_\_\_\_\_ (Cell) \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
Street or Box # City State Zip

Team Members + t-shirt sizes (limited to 5 per school): \_\_\_\_\_

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For general competition questions (competition location, logistics, entry edits, etc.), please contact Abby Nelson at [anelson@morgantonncc.gov](mailto:anelson@morgantonncc.gov) or call 828-438-5280. For technical questions (rules & regulations, standards, etc.), please contact Paul Gantt at [pgantt@burke.k12.nc.us](mailto:pgantt@burke.k12.nc.us)

Please read all of the guidelines and sign below: I acknowledge that I have read and will abide by the 2022 M.A.D.E. Competition guidelines. I understand that if I violate any rule, the competition officials may terminate my participation. I release the Historic Morganton Festival from any responsibility for theft, damage or loss.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



WAIVER AND RELEASE FOR M.A.D.E. COMPETITION

As the parent or guardian of \_\_\_\_\_, who is under the age of 18 years, I sign this Waiver and Release for the City of Morganton on his or her behalf, and agree and acknowledge as follows:

1. \_\_\_\_\_ is a student at \_\_\_\_\_ [Middle][High] School, and wishes to participate in the 2022 Burke County schools M.A.D.E. competition on October 21, 2022, which will involve teams of students designing, creating, constructing and displaying an object or objects in a judged competition.
2. I understand that the M.A.D.E. event is to be held in downtown Morganton during and as a part of the Historic Morganton Festival, Inc., and will be at least partially conducted on City property or on public streets and sidewalks
3. Both my child and I understand and agree that participants in the competition may, and will be expected to, use various hand tools and power tools as part of the creation and construction process, under supervision of teachers, staff or other adults.
4. Both my child and I understand and accept that use of the various tools which may be needed or required in the competition involves some risk of bodily injury.
5. In order to participate in the M.A.D.E. competition, my child and I have both been required to read, accept and sign the appropriate rules and regulations of the Burke County Public Schools for such activity, including a Student Safety Contract governing my child's conduct.
6. I understand that the City of Morganton and Historic Morganton Festival, Inc. require all participants in the M.A.D.E. competition, or if minors then their responsible adults, to sign a Waiver of liability and Release of claims in the form of this document.
7. As responsible parent of \_\_\_\_\_, by signing this document I agree that neither the City of Morganton nor Historic Morganton Festival, Inc. shall be liable or responsible for any injury or damage to my child resulting from or caused by the use of any tools or equipment, or any other aspect of his or her participation in, the M.A.D.E. competition, unless such injury or damage is caused by clear negligence on the part of the City or the Festival.
8. To the full extent allowed by North Carolina law, I further agree to waive, and do hereby waive, any claim against the City of Morganton or Historic Morganton Festival, Inc., for damages for bodily injury to my child which may arise or result from the participation of my child in the M.A.D.E. competition, including any claims for medical expenses.
9. To the full extent allowed by North Carolina law, I further hereby release the City of Morganton and Historic Morganton Festival, Inc., and their respective officers, employees, agents and departments, from any and all liability for personal injury to my child arising out of or resulting from his or her participation in the M.A.D.E. competition on October 21, 2022 in downtown Morganton.

This the \_\_\_ day of \_\_\_\_\_, 2022.

\_\_\_\_\_

Signature