



**INVENTIONLAND®**  
EDUCATION



We take **Professional Learning**  
to New Heights



# Professional Learning

Confident teachers foster confidence in students. Our professional learning programs are designed to give teachers the tools they need to empower both students and themselves.

From single and multi-day intensive professional learning courses to half-day workshops, teachers can earn state teacher continuing education credits, and even become trainers for their district and state Educational Services Agency.

Let us show you how our professional learning courses can help teachers become inspirational leaders for a new generation of inventors and innovators!



This workshop was probably the best I've been to in years. It was hands-on, engaging, and I left with multiple resources that I can and will actually use in my classroom."

**Bethany Bostic**

Rappahannock County Elementary School



The training was hands-on and engaging. It let us see firsthand what the kids will experience. I can't wait to see all of the ideas that our students come up with."

**Ben Barrett**

Technology Education,  
Valley Grove School District



"At the first of the week, a few of us thought we knew everything we needed to know and the others were nervous to even touch the machines. By the end of the training, those who thought we had the answer learned new skills and tricks to make what we were already doing easier and faster. The rest of the group became excited and no longer nervous, and they were jumping in and asking questions. By the end, I believe we now have the proper knowledge to adequately train the students we have now and in the future."

**Michael Ritchie**

Cleveland High School, Attended the 3 Day Maker Technology Training

# Topical Workshops

These engaging workshops will help you learn and guide your students in the use of advanced making equipment that makes learning easier!

Our workshops go beyond the content of your machine's instructions manual. We teach practical application of how to use maker technology in the classroom.

***Your teachers will be able to more confidently and effectively lead your students in maker technologies.***



## 1. 3D Printing

This workshop covers effective use of your 3D printer, including common pitfalls to avoid. The full-day session allows for plenty of practice.

## 2. Vinyl Cutting

These relatively inexpensive machines are widely used. We describe the most popular options and great ways to teach with them, with practical projects.

## 3. Laser Cutting

Learn proper setup and operation of this powerful cutting and engraving tool. We also offer suggestions on how to get the most out of it.

## 4. Plasma Cutting

This insightful workshop will demonstrate the correct way to use the plasma cutter for optimal classroom instruction, and includes safety tips.

## 5. Electronics Kits

We introduce and explain electronic kits that offer fascinating ways to introduce beginners to the world of electronics, based on that you have.

## 6. Raspberry Pi and Arduino

These are the two most widely used basic electronics systems. Raspberry Pi is a mini-computer, whereas Arduino is a microcontroller. We'll walk you through when and how to use both.

## 7. Stop-motion Animation

With a smartphone or tablet and an app, students learn how to bring still objects to life through the magic of animation. This module explains how with no previous animation knowledge required!

## 8. Prototyping with Cardboard

This is one of our most popular workshops since cardboard is easily to work with, inexpensive and excellent for STEM learning. We'll share techniques and projects.

## 9. Video Production

Video production is much more than just taking a video on a smartphone. We'll show you the steps and programs to make beautiful videos.

## 10. Logo and Package Design

This is a great way to bring STEAM alive in the classroom. Learn how to better teach these concepts from industry professionals.

## 11. Prototyping with Blue Foam

Blue foam is an excellent way to sculpt, and create 3-dimensional projects. We're show you how to do it in the classroom.

**12. Working with Silicone** is a synthetic rubber that is commonly used to create molds of existing objects. During the training, we will teach you how to create your own molds, cast your own copies of small items, and how to use it in the classroom.



## 3-Day Maker Technology Training



This immersive, 3-day training program is designed for educators in STEM, vocational and maker space settings. It is also customized for the specific machines that you have at your location.

This course goes well beyond the instructional manual, with hands-on strategies on how to use various maker machines in classroom settings.

- Teachers learn the ins and outs of machines and how to safely instruct and guide students through practical use and applications.
- The program includes overviews of your current machines, and what they're used for, with plenty of time for actual use of the machines by teachers.
- Each day covers a different maker machine depending on what your school currently has.
- We also include time for actual projects that educators can use with students, experiencing first-hand what to expect.

## Day of STEM Innovation

Our immersive Day of STEM Innovation helps educators learn practical ways of introducing interesting and engaging projects to supercharge their classrooms. You can choose the approximate age and class ranges for hands-on activities that demonstrate STEM applications in a fun and exciting ways.

Whether you're solely focused on STEM concepts, or would like to introduce project-based learning into the classroom, our team of trainers will take you through the entire process. Educators will go through our hands-on activities to see first-hand how their students will experience the projects. These activities offer a different spin on key concepts to allow students to be active and engaged in their learning while having fun.

The activities and challenges are great for team building and deepening learning concepts in a very practical way.

