

Lesson Plan for Make it In Massachusetts

Objective: Students will be able to explore and engage with STEAM topics as it is related to manufacturing in Massachusetts and throughout the US by watching a series of videos and responding to open prompts.

Frame the Learning (The purpose of this website is to provide exciting engaging content that exposes students to STEAM related experiences in manufacturing).

Please take a moment to orient yourself and your class once on the [website](#). This is important for a group facilitated or as an independent learning experience. **(5 Mins)**

Learning Activity (this is where students can explore how these various technologies fit into manufacturing). (30 Mins.)

Idea: Tic Tac Toe or You Pick 3.

3D-Printing: Create Anything	The Future: Robotics and AI	Innovators; Creators
Women Makers	Making Things	Real People; Real Stories
Healthy World: Medical Device Manufacturing	AR: Manufacturing Reality	Make PPEs, Save Lives

Application: After having students pick their three topics have them respond to following prompt(s):

1. Based on the Tic-Tac-Toe topics chosen, to what extent did that content reinforce or contradict your ideas regarding manufacturing?
2. Based on the Tic-Tac-Toe topics chosen, what skills and technologies do you need to learn more about in order to try one of these potential careers?

n.b. These prompts could be used for whole class or a small group discussions, or as a writing prompt.

Ticket to Leave: It is important that each student do the following exit ticket. At the end of the exit ticket a certificate of completion will be made available for each student, but it also provides MassHire with valuable information to make this event more engaging for students going forward.

The Ticket to Leave can be found [here](#).

Extension Activity:

North Central MassHire and Quabbin Regional School District is presents:



Introduction to Machine Learning with Apple.

Apple will provide 4 interactive lessons (one each week) during the month of May.

Intro to Machine Learning is a 40-minute, interactive workshop designed for students new to machine learning. Come learn the basics of how to think about machine learning and user experience in industry. We'll discuss *use cases* at an introductory level and you'll even get a chance to build your own ML models with no coding required!

Dates and times will be announced shortly, along with a formal signup. Apple will provide some pre-work and an after session student challenge. Certificates will be made for each student that completes this micro-course.

