Procedure

You will prepare a trifold brochure and presentation to communicate to your classmates the details of a field of manufacturing or automation that interests you. You will organize all relevant career information and a reflection of your thoughts into one brochure. You will create a presentation to synthesize and communicate what you learned about the field. The document and presentation should be concise, informative, and grammatically correct. Use APA format to properly document the information. Refer to the Citations in APA Style resource.

The brochure will contain career details and information from reliable resources. The reflection portion of your document will include your personal thoughts.

Trifold Brochure

Organize your data into a trifold brochure. Your final documentation should reflect your professionalism and should include the topics below in the following order:

* Title (include an image, your name, course, date, and title)
* Description of the field you chose
* Demand for employees (current and future)
* Salary (current and future)
* Education requirements (high school and college)
* Typical companies that offer employment in this field
* Training programs (see below)
* Reflection (see below)
* Conclusion
* References page

**PLTW ENGINEERING**

Project 4.1.2

**Manufacturing and Automation Careers**

INTRODUCTION

During this course you have learned manufacturing and automation concepts and have experienced various processes. Can you see yourself applying these concepts in a career? You now have an opportunity to research what it would take to become a professional and explore what your work life might look like.

RESOURCES

* [Career Rubrics](https://pltw.read.inkling.com/a/b/b54b485092f9471abfdd8f6696271f44/p/73ce9d68e66b444389988ccdb64436d7)
* [Citations APA Style](https://lms-content.pltw.org/curriculum/HS/ENG/CIM/Student/_External/CitationsAPAStyle.docx)

Procedure

You will prepare a trifold brochure and presentation to communicate to your classmates the details of a field of manufacturing or automation that interests you. You will organize all relevant career information and a reflection of your thoughts into one brochure. You will create a presentation to synthesize and communicate what you learned about the field. The document and presentation should be concise, informative, and grammatically correct. Use APA format to properly document the information. Refer to the Citations in APA Style resource.

The brochure will contain career details and information from reliable resources. The reflection portion of your document will include your personal thoughts.

Trifold Brochure

Organize your data into a trifold brochure. Your final documentation should reflect your professionalism and should include the topics below in the following order:

* Title (include an image, your name, course, date, and title)
* Description of the field you chose
* Demand for employees (current and future)
* Salary (current and future)
* Education requirements (high school and college)
* Typical companies that offer employment in this field
* Training programs (see below)
* Reflection (see below)
* Conclusion
* References page

Training Programs

Manufacturing and automation companies often require specialized technical professionals. To develop valuable employees, some companies in the industry train employees in-house (using their own facilities) or through co-op employment or internship (a term spent working instead of completing classes during college).

* What companies offer training programs?
* Describe program details, including entrance requirements, commitments, and schedule.
* Properly cite the name and contact information of the person who provided this information or the website where the program details are located.

Reflection

Your reflection should be written in narrative form. Use the questions below as a guide.

* Why did you choose this career field to research?
* What are some of the best and worst aspects of this career?
* What are the most difficult courses that you would have to take beyond high school to earn a degree in this field?
* What other manufacturing careers would you consider?
* Is this a career that still interests you? Why?

Presentation

Your presentation should be professional. Your classmates are the intended audience. Your presentation will convey the most important information from your report. The presentation will be between two and three minutes and is limited to three slides, in addition to the title and reference slides.

Your presentation must include the following:

* Your name, course, date, and title on the opening slide
* A summary of the most important information that you gathered
* A reference slide at the end of the presentation that documents your sources in APA style

CONCLUSION

1. Is this career what you imagined it would be?
2. What steps do you need to take to become a professional in this field?