

Final Exam CTE Wheel- 60 points (10% of final grade)

Objective: Student will demonstrate understanding of the career possibilities from the rotation classes by researching and making a presentation on a career related to one of the classes.

1. Pick a career related to one of the classes in your rotation. Teachers will give suggestions on possible careers.
No duplicate careers choices.
The teacher will explain how careers will be picked for his or her class.
2. Create a presentation using a Google Slides, portfolio, poster board or brochure.
3. Each student will create an individual presentation.
4. The presentation will be a total of 2-3 minutes.
5. Presentation will take place on the day of the final.
6. Student will "Dress for Success" Teacher will explain proper dress.
7. Must have 5 reference sources

Neatly write out your answers to each section. This sheet will be handed in to the teacher.

Your presentation will cover:

1. **What is your assigned career and explain what a person will do in this career (the responsibilities)**
2. **Create a Career Ladder for this career. Fill out the template**
3. **Discuss at least one thing that you would consider an unique benefit.**
Although benefits are often depended on the employer/company (health care, vacation plan, retirement) **there are unique benefits with any job.** For example, fashion models are sometimes allowed to have the clothes they model. For some people, business traveling would be a benefit.

4. What is the salary range?

What is the **average** pay? What is the **starting** pay? (You can research the extreme best pay, but understand that it is only the very best and very few that will achieve it. Keep most of your research on the average and starting pay.)

5. What is the education, experience and or training that is needed for this career?

Is there different ways to get started in this career? For example: Fashion designer can get a college degree or go to a vocational school.

6. What are the job requirements?

Do you need a certificate or license? Do you need certain physical abilities, like lifting or 20/20 vision? Do you need certain qualities (soft skills) like being able to speak to large crowds, bilingual or creativity? Do you need to travel?

7. What experience is needed?

List at least 4 career skills for this career.

Can you get experience as a high school student? If so, what can you do?

8. Find a success story or notable celebrities in this field or related field.

Why is this person successful or a notable in the field?

What qualities made this person successful? Are these qualities that you can emulate?

Note: There are some careers it is difficult to find a notable person. If you can't find one, see the teacher before your presentation and discuss it with the teacher.

9. Write a proper goal (specific, measurable, with a due date) for your personal career training.

You might want to look over your 10year ACTION plan and see if you are on track.

Goal: _____ by (date to be completed) _____

Objective:

1. _____

2. _____

3.. _____

10. Resources- at least 5

Drafting Work has Many Specialties:

32

Aeronautical drafters prepare engineering drawings detailing plans and specifications used in the manufacture of aircraft, missiles, and related parts.

Architectural drafters draw architectural and structural features of buildings and other structures. These workers may specialize in a type of structure, such as residential or commercial, or in a kind of material used, such as reinforced concrete, masonry, steel, or timber. A growing field is *Green Building Trends and Technology* (Alhambra High School has the Green Academy to help prepare students for this area.)

Civil drafters prepare drawings and topographical and relief maps used in major construction or civil engineering projects, such as highways, bridges, pipelines, flood control projects, and water and sewage systems.

Electrical drafters prepare wiring and layout diagrams used by workers who erect, install, and repair electrical equipment and wiring in communication centers, power plants, electrical distribution systems, and buildings.

Electronics drafters draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used in the manufacture, installation, and repair of electronic devices and components.

Mechanical drafters prepare drawings showing the detail and assembly of a wide variety of machinery and mechanical devices, indicating dimensions, fastening methods, and other requirements.

Process piping or pipeline drafters prepare drawings used in the layout, construction, and operation of oil and gas fields, refineries, chemical plants, and process piping systems."

<https://job-outlook.careerplanner.com/Drafters.cfm>

Cartographers makes "maps to be used in urban planning. A background in geology will be helpful. The news media, book publishers, atlas publishers, government agencies and others are looking for cartographers to help produce maps." <https://www.thoughtco.com/geography-jobs-and-careers-1434398>

Packaging engineers "develop packaging for a company's products, with the goal of making the package both functional and cost-effective. They choose the materials, methods and machinery that go into the production of packaging supplies, and they develop production methods that eliminate waste and unnecessary spending." http://study.com/articles/Become_a_Packaging_Engineer_Education_and_Career_Roadmap.html

Manufacturing engineers can branch into designing products, the process of manufacturing the product including making the assembly line or be an expert on eliminating wasting materials. The manufacturing engineer could be a manager of people, making important decisions for the company. Related field is Industrial Engineer, <http://work.chron.com/qualifications-become-production-engineer-5858.html>

Machinists and tool and die makers work with computer controlled machinery and mechanical equipment to cut, shape and finish tools made of metal, or forge die casts for creating molds for materials made out of metal, plastic, ceramic and more

Mechanical engineers- "Mechanical engineers design, build, and test mechanical devices such as tools, engines, and machines. Considered the broadest engineering discipline, mechanical engineers work in engineering services, research facilities, manufacturing industries, and the federal government". <https://www.thebalance.com/list-of-mechanical-engineer-skills-2062433>

Landscape Architects- The attractiveness and usefulness of our parks, highways, neighborhoods, urban plazas, gardens, zoos and institutions reflects the skill of landscape architects in design and planning to achieve the best use of land resources. <http://www.akasla.org/resources/What-is-LA>

"Car designers use product design principles to create practical yet innovative ideas for new automobiles. They often work with engineers to make sure that their designs can be made into functioning automobiles that will appeal to consumers, and they use emerging technology to create cars that are environmentally friendly and affordable."
http://study.com/articles/Car_Designer_Job_Information_for_Students_Considering_a_Career_Designing_Cars.html

Some careers uses drafting, but it may not be the main focus of the career

Interior Designer- Creating living and working spaces isn't just about color, light, and materials. It's about building codes, accessibility, and sustainability

Set Designers-"Set design, which is sometimes referred to as scenic design, refers to the design and creation of the sets used in works of performance art, including movies and plays. At times, designing these sets may be as simple as arranging a few simple pieces of furniture on a stage. Other times, however, it may be as complicated as recreating a complex location, such as the inside of a spaceship, with limited materials."
<http://www.theartcareerproject.com/set-design-career/654/>

Other Careers Ideas
Welders, sheet metal workers, cabinet and furniture makers, technical manual illustrator.

What if the Career I Want to Research is Not Listed?

By studying drafting, the student learns many other skills beside how to hold a pencil and dimensioning. Drafting will teach attention to details, accuracy, neatness, spatial relationship, design and problem solving. If you can justify the use of drafting or the related skills it teacher in the career, you may research it. Make sure the teacher approves of your choice.

To Get Started on your Research

For researching a career use: <https://www.bls.gov/ooh/>
Click on "Occupational Group" on the left to get a listing of jobs.

To research careers using drafting, start with:
"Architecture and Engineering", "Construction and Extraction" "Installation, Maintenance, and Repair" and/or "Production"

If you already know what you want to research

Type the career title in the search box in the upper right hand corner.

Career Ladder

Career	Job Title	Median Annual Pay
Career Cluster		
Education/Training Level		
Doctoral or Professional Degree		
Master Degree		
Bachelor + Work Experience or Cert.		
Bachelor Degree		
Associate Degree		
Postsecondary Vocational Cert.		
Long term on-the-job training		
Moderate term on-the-job training		
Short term on-the-job training		
No High School Diploma		

"Car designers use product design to work with engineers to consume..."

or new automobiles that will be designed and manufactured by the design firms that will be designing the cars. The design firms may be...