**Discussion GUIDE: Manufacturing Careers**

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| **TEACHER DISCUSSION LEADERS:**  1. Lead a class discussion about Manufacturing careers using the  Proposed Student Discussion Questions and Prompts.  2. Discuss which high school CTE courses help students get ready for a  career in Manufacturing.  3. Key Manufacturing introductory concepts include: a) Automation,  b) Installation, c) Fabrication, and Use of Technology.  4. Find additional Manufacturing resources on the TREES website at  <https://www.cteintrees.org/career-exploration-resources>. | **STUDENT OPTIONS:**  1. Take the Career Assessment in the *TREES Career Guide for Students*. Then,  review Manufacturing job titles on pages 36 and 37.  2. Take the *True Colors Personality Quiz* at  <https://www.ira.esc14.net/upload/page/0255/True%20Colors.pdf>.  3. Watch the 12-minute *Manufacturing Engineers* video at  <https://firsthand.co/professions/manufacturing-engineers> and a 3-minute  *Manufacturing Engineer at KEB America* video at  <https://www.youtube.com/watch?v=EOlzYL8ltCw> .  4. Do your own research about Manufacturing careers to learn more.  5. Participate in a class discussion. |

Proposed Student Questions and Prompts

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| Q1a. What do people in Manufacturing careers do? Which Manufacturing jobs (page 36 of the *Career Guide for Students*) are most interesting to you? Characteristics of Manufacturing professionals include:  ***Doers*** generally ’hit the ground running,’ rarely procrastinate and like a challenge. ***Thinkers*** solve problems, make decisions, and organize tasks well. **Organizers** manage resources (time, energy, work) well.  Q1b. What strengths did *True Colors* identify about you? | **In a Manufacturing** **career** you may design, build, install, and maintain many types of products and your job could be in mechanical, electrical, bio-medical, and aerospace engineering, etc. Manufacturing engineers create products from raw materials or components. You may bring an idea and a design to life: cell phones, watches, cars, airplanes, bicycles, computers, etc. Engineers work in all industries–aviation, food, automobile, chemical, etc.  What skills might you need to improve to be more successful in a Manufacturing career? Skills are the ability to do something well. |
| Q2. What did you learn from the two *Manufacturing Engineer* videos? | What skills do Manufacturing Engineers need? Which of those skills do you already have? What skills might you need to improve for a career in Manufacturing? |
| Q3. Do you know someone who works in the Manufacturing industry such  as an Assembler, CNC Technician, Designer, Electrician, Millwright,  QC Inspector, Robotics Technician, Tool & Die Maker, Welder, etc.? | What do they do at work?  What high school courses would help you in a Manufacturing career? |
| Q4. What Manufacturing employers are in your local area? | *JDA Custom Manufacturing, Inc.* and *Wesco Machine and Tool, Inc.* are two local Manufacturing employers. Can you list 3 more employers?  1.  2.  3. |