

Advanced Metals Materials and Processes

Power Standards

1. Develop an understanding of the nature of metalworking technology.
2. Develop an understanding of metalworking technology and society.
3. Develop an understanding of metalworking design.
4. Develop abilities for a technological world in metals, materials, and processes.
5. Develop an understanding of the designed world of metals, materials, and processes.

Power Benchmarks

1. Recognize metalworking history and research technique.
2. Investigate the make-up of metals.
3. Apply shop mathematics / precision measurement.
4. Recognize quality control and inspection tasks.
5. Demonstrate advanced metalworking skills / techniques.
6. Develop daily work habits.
7. Develop problem-solving skills related to materials and processes.
8. Demonstrate pre-vocational skills.
9. Analyze integrated manufacturing.
10. Identify metalworking careers and career planning strategies.