## Course Title - Woodworking 4 Implement start year - 2015-2016 Revision Committee Members, email, extension – Daniel DiNatale ddinatale@lrhsd.org x 8987 Michael Johnston mjohnston1@Irhsd.org x8565 Alan Mills amills@Irhsd.org x8684 Chuck DiVincenzo cdivincenzo@Irhsd.org x6622 Unit #1 - Safety Transfer Goal -Students will be able to independently use their learning to operate tools and machines safely. Stage 1 – Desired Results **Established Goals** 21<sup>st</sup> Century Themes ( www.21stcenturyskills.org ) 2009 NJCCC Standard(s), Strand(s)/CPI # Global Awareness (http://www.nj.gov/education/cccs/2009/final.htm) Financial, Economic, Business and Common Core Curriculum Standards for Math and English **Entrepreneurial Literacy** (http://www.corestandards.org/) Civic Literacy Health Literacy 8.2 Technology Education, Engineering, and Design **Environmental Literacy** All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as 21st Century Skills they relate to the individual, global society, and the environment. Learning and Innovation Skills: x Creativity and Innovation x Critical Thinking and Problem Solving G. The Designed World: The designed world is the product of a design x Communication and Collaboration process that provides the means to convert resources into products and systems. Information, Media and Technology Skills: x Information Literacy 8.2.12.G.1 Analyze the interactions among x Media Literacy various technologies and collaborate to create a product or x ICT (Information, Communications and system demonstrating their interactivity. Technology) Literacy

CCSS.ELA-LITERACY.RST.9-10.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.  CCSS.ELA-LITERACY.WHST.9-10.2.F Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).  9.1 21st-Century Life & Career Skills All students will demonstrate the creative, critical thinking, collaboration, and problem-solving skills needed to function successfully as both global citizens and workers in diverse ethnic and organizational cultures.  9.1.12.A.1 Apply critical thinking and problem-solving strategies during structured learning experiences.	Life and Career Skills:  _xFlexibility and Adaptability  _xInitiative and Self-Direction  _xSocial and Cross-Cultural Skills  _xProductivity and Accountability  _xLeadership and Responsibility
Enduring Understandings: Students will understand that	Essential Questions:
EU 1  the implementation of proper safety procedures will minimize potential hazards.	<ul> <li>EU 1</li> <li>Why is safety important?</li> <li>How does behavior affect safety?</li> <li>How does the maintenance of tools and machines impact safety?</li> <li>How does classroom environment influence safety?</li> </ul>
Knowledge: Students will know	Skills: Students will be able to
EU 1 • proper classroom expectations (attire, behavior, procedures, etc.).	EU 1  • demonstrate proper general lab safety.

the form, function, and safe application of hand tools.

demonstrate the proper safety, form and function of hand tools.

the form, function, and safe application of power tools.	<ul> <li>demonstrate the proper safety, form and function of power tools.</li> <li>select the appropriate tool for a required task</li> </ul>
Stage 2 – Assessment Evidence	
Recommended Performance Tasks:	
Other Recommended Evidence: Tests, Quizzes, Prompts, Self-assessment, Observations, Dialogues, etc.	
<ul> <li>Quiz/Test on hand tools, power tools, general lab safety</li> <li>Students demonstrate setup, safety, and operation of hand/power tools</li> <li>Student presentations on safety, form and function of hand/power tools</li> <li>Group discussions on proper safety practices</li> </ul>	

## **Stage 3 – Learning Plan**

Suggested Learning Activities to Include Differentiated Instruction and Interdisciplinary Connections: Each learning activity listed must be accompanied by a learning goal of A= Acquiring basic knowledge and skills, M= Making meaning and/or a T= Transfer.

- Research other companies floorplans and setup (A)
- Observe technicians using proper procedures (A)
- Teacher led discussions on safety and hand/power tool usage (A)
- Practice new skillsets on hand and power tools (M)
- Create a safety and operations worksheet outlining the function of given tools (M,T)
- Demonstrate proper tool usage (M,T)
- Create a safety assessment as a training consultant for manufacturing facility (M,T)
- Student presentations and modeling of hand/power tool usage (M,T)
- Student journaling and self reflection (T)