Engineering byDesign:
The Daily SkillsUSA Training Ground

Engineering byDesign's (EbD) project-based, standards-aligned curricula aligns with the requirements of certain SkillsUSA competitions, meaning that preparation happens **in the classroom, during the school day**.

- **Equity and Access:** By making SkillsUSA a core part of EbD, you democratize access to high-value CTE opportunities. **No student is excluded** due to transportation, after-school jobs, or family commitments.

- **Authentic Assessment:** SkillsUSA competition itself becomes the ultimate, industry-validated **summative assessment** for your EbD course. When students compete, their performance is graded by professionals on industry standards; the most valuable feedback you can provide.

- **Motivation and Rigor:** When students know their daily classroom work directly feeds into a national, high-profile competition, their **engagement and commitment to rigor skyrocket.** The competition becomes a tangible, aspirational goal that drives focus during instructional time.

The Bottom Line: Use the EbD-SkillsUSA Crosswalk to prove that you can achieve **academic standards, technical mastery, and competition success** all within the confines of the regular school schedule.

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High School SkillsUSA Crosswalk

	Leadership	Engineering for All Extension Units	Foundations of Technology & Engineering	Technological Design	Advanced Design Applications	Advanced Technological Applications	Engineering Design	AP Computer Science Principles by Design	Onshape Certification byDesign
3D Visualization and Animation			X	X	X	X	X		X
Action Skills			X	X	X	X	X		X
Additive Manufacturing			X	X	X	X	X		X
American Spirit									
Architectural Drafting			X	X	X	X	X		
Audio Production			X						
Automated Manufacturing Technology					X				
Career Pathways - Industrial and Engineering Technology			X	X	X	X	X	X	X
Career and Technical Educator	X								
Chapter Business Procedure	X								
Chapter Display	X		X						
Community Action Project		X			X	X	X		
Community Service		X			X	X	X		
Computer Programming			X			X		X	
Electronics Technology									
Employment Application Process							X		
Engineering Technology - Design			X	X	X	X	X		X
Entrepreneurship			X			X	X		
Extemporaneous Speaking		X	X		X	X			
Interactive Application and Video Game Development			X	X		X		X	
Job Interview			X	X	X	X	X		X
Job Skill Demonstration A			X			X	X	X	X
Job Skill Demonstration Open			X			X	X	X	X
Mechatronics			X	X	X	X	X		
Mobile Robotics Technology			X	X	X	X	X		
Occupational Health and Safety-Multiple			X						
Occupational Health and Safety-Single			X						
"Opening and Closing Ceremonies"	X								
Outstanding Chapter	X								
Pin Design			X	X					
Prepared Speech		X	X		X	X	X		
Principles of Engineering - Technology			X	X	X	X		X	X
Promotional Bulletin Board			X	X			X		
Quiz Bowl	X								
Related Technical Math						X		X	
Robotics and Automation Technology			X	X	X	X	X		
Robotics-Urban Search and Rescue						X	X		
T-Shirt Design			X	X					
Team Engineering Challenge						X	X		X
Technical Drafting			X	X	X	X	X		X
Video Production		X	X	X	X	X	X		

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Middle School SkillsUSA Crosswalk

	Leadership	6th Grade - Our World and Me	6th Grade - Exploring Technology	7th Grade - Invention & Innovation	8th Grade - Technological Systems	Engineering for All Extention Units
3D Visualization and Animation			X	X	X	
Action Skills		X	X	X	X	
Additive Manufacturing		X	X	X	X	
American Spirit	X					
Chapter Display	X					
Community Action Project		X	X	X	X	X
Community Service		X	X	X	X	X
Engineering Technology - Design		X	X	X	X	
Extemporaneous Speaking		X	X	X	X	
Job Interview		X		X	X	
Job Skill Demonstration A	X					
Job Skill Demonstration Open	X					
Mobile Robotics Technology		X		X	X	
"Opening and Closing Ceremonies"	X					
Outstanding Chapter	X					
Pin Design			X	X		
Prepared Speech		X	X	X	X	X
Promotional Bulletin Board			X			
Quiz Bowl	X	X				
Robotics-Urban Search and Rescue		X		X	X	
T-Shirt Design		X	X	X	X	
Team Engineering Challenge		X	X	X	X	
Video Production		X	X	X	X	X