

For information on robotic safety and example of robotic safety and Risk Assessment visit these weblinks

[Association for Advancing Automation - A3 Website](#)

<https://www.osha.gov/otm/section-4-safety-hazards/chapter-4#safety>

<https://www.osha.gov/otm/section-4-safety-hazards/chapter-4#app2>

Risk Assessment Video Demonstration and information

[Risk Assessment Video](#) To view use the password: *Kalahari2025A3*

### A3 Robot Safety Award

The **A3 Robot Safety Award** is a prestigious recognition that aims to inspire and encourage the next generation of robotics enthusiasts to prioritize safety in robotic operation and automation. This award highlights the vital importance of understanding robotic safety standards, conducting thorough risk assessments, and fostering a culture of safety in environments where robots are designed, operated, and maintained.

At A3 [automate.org](https://www.automate.org), we are committed to helping robotics and automation companies, as well as robot users, navigate the complexities of safe robot operation. Robotic safety is a collaborative effort that spans across design, implementation, and maintenance teams to ensure secure and efficient workplaces. By embedding safety principles at every stage of a robot's lifecycle—design, programming, and daily use—the A3 Robot Safety Award seeks to instill a strong foundation of awareness, innovation, and best practices among aspiring leaders in the field of robotics.

This award celebrates individuals and teams who exhibit exceptional dedication to robotic safety, recognizing their role in driving safer and more advanced automation solutions for the future. By honoring these achievements, we aim to inspire a new standard of excellence in robotic safety and innovation.

Team Number: \_\_\_\_\_ Date \_\_\_\_\_ Event Name \_\_\_\_\_

### **A3 Risk Assessment Safety Award Submission Information Form**

**Instructions for team: This form will be judged on the day of the event. Please hand the form in at the Kalahari Event registration desk when you check in your teams.**

Identify some potential safety issues you experienced as you designed and made modifications to your robot including page numbers:

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How does the A3 risk assessment matrix and cycle apply to your robot design? Please identify and explain any that apply:

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Provide evidence of knowledge relating to the robotic safety standards ANSI R1506 and R1508 and how it applies to your robot design:

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## A3 Safety Award Rubric

Team # \_\_\_\_\_

Grade Level  HS |

Judge Name \_\_\_\_\_

**Directions:** Determine the point value that best characterizes the content of the A3 Risk Assessment Safety Award Submission Information Form for that criterion. Write that value in the column to the right. This rubric is to be used for all A3 Risk Assessment Safety Award Submission Information Forms (physical or digital).

CRITERIA	PROFICIENCY LEVEL			POINTS
	EXPERT (4-5 POINTS)	PROFICIENT (2-3 POINTS)	EMERGING (0-1 POINTS)	
<b>ENGINEERING DESIGN PROCESS</b>				
<b>IDENTIFY SAFETY AWARENESS</b>	Team demonstrates evidence of identifying and addressing the potential safety issues at the start of their robot design or any modifications thereafter. Shows evidence that the A3 Risk Assessment Matrix was applied to design cycle ANSI R15.06	Identifies safety concerns and mitigation at the start of their robot design or any modifications thereafter. Lacking Risk Assessment information ANSI R15.06.	Does not identify the challenge of robotic safety at the start of their robot design or any modifications thereafter.	
<b>A3 Robotic Risk Assessment Rubric</b>	Shows evidence that the students researched and were aware of A3 Risk Assessment Matrix and cycle used in industry	Evidence team has awareness of A3 Robotic Risk Assessment	Does not show evidence by the team of awareness of Risk Assessment	
<b>Robot Build</b>	Team builds a safe robot with no sharp edges, lose wires, and safe operation was built into the robot design.	Team's robot had no sharp edges, lose wires, and safe operation was evident in robot	Team robots had safety design and operation concerns	
<b>Team Safety Evidence of Safety research ANSI R1506 and ANSI R 1508 Standards</b>	Team evidence of knowledge - robotic safety standards ANSI R1506 and R1508	Team displays evidence of robotic safety standards ANSI R1506 and R1508	Does not display evidence of robotic safety standards ANSI R1506 and R1508.	
<b>NOTES:</b>				
			<b>Total Points</b>	