SUPERVISED AGRICULTURAL EXPERIENCE (SAE) RESEARCH PLAN

SAE is a student-led, instructor supervised, work-based learning experience that results in measurable outcomes within a predefined, agreed upon set of Agriculture, Food and Natural Resources (AFNR) Technical Standards and Career Ready Practices aligned to your career plan of study.

A Research Plan must be completed and approved for all **Research Immersion SAEs**. Its intent is to define the scope of the research, clarify responsibilities and roles and identify any safety issues to address.

A. This **Research Plan*** is in effect for the _____ school year.

1. **Type of Project**: (Experimental, Analytical or Invention)

2. **Title of Research Project**: (Provide a clear and descriptive title for your research project.)

3. **Abstract:** (Present a summary of what you will be researching. Include why you are researching this topic or area and what you hope to discover.)

4. **Introduction:** (Summarize in two to three paragraphs the problem you are addressing or invention you are creating. Be sure to include the reason behind your proposed research. Explain why it is important and what you hope to accomplish by completing the work. This is also where you can include predictions about your potential outcomes.)

5. **Literature Review**: (In this section, highlight the findings of research by credible sources on the topic or issue in question. The literature review will provide proposal reviewers insights into what experts already know about the topic.)

6. **Methods and Results:** (Describe your hypothesis and proposed research methods. Be as descriptive as possible.)

7. **Discussion:** (In this section, include any potential weaknesses or complications you may face with your research.)

B. **SAE Risk Assessment Results***: (Student, guardian, teacher and employer will complete the *Safety in Agriculture for Youth SAE Risk Assessment* and include findings an action items here.)

Name:	Worksite:	Date:

Instructions: Answer each question with a check mark in the "yes" or "no" boxes. Then determine the level of risk (using the scale below) for each activity, based on your answer. If the level of risk is high, recommend actions to increase the student's safety. Include a date by which you would like the action completed and who is responsible.

Phase 1: Pre- Work Assessment

	Yes/No	Level of Risk	Recommended Action	Target Date	Person Responsible
Does student take job responsibilities seriously?	Answer	Answer			
Is the student mature enough to carry out assigned tasks safely?	Answer	Answer			
Does student operate equipment (e.g. tractors, vehicles, forklifts, etc.)?	Answer	Answer			
Does student interact directly with livestock?	Answer	Answer			
Is student's supervisor present during work hours?	Answer	Answer			
Does student check in with supervisor on a regular basis throughout the day?	Answer	Answer			
Has student successfully completed a relevant training program?	Answer	Answer			
Does student understand the inherent dangers of their work environment?	Answer	Answer			
Was proper on-site training required by supervisor (e.g., animal handling, hygiene, etc.)?	Answer	Answer			
Does supervisor consistently enforce safety practices?	Answer	Answer			

Phase 2: Working Condition Assessment					
	Yes/No	**Level of Risk**	**Recommended Action**	**Target Date**	**Person Responsible**
Is proper personal protective equipment worn when necessary?	Answer	Answer			
Is student dressed appropriately for the type of work being done?	Answer	Answer			
Is machinery equipped with modern safety features (e.g., ROPS for tractors, etc.)?	Answer	Answer			
Does equipment have proper safeguarding (e.g. Emergency shut offs, stop switches, guards, self-locking yokes, anti-backing bar, etc.)?	Answer	Answer			
Phase 3: Injury Preparedness Assessment					
Does student's workplace have an emergency protocol in place?	Answer	Answer			
If so, does the student understand the emergency protocol?	Answer	Answer			
Is student's supervisor trained in CPR or first aid?	Answer	Answer			
Is there any emergency medical equipment on site (e.g. first aid kit)?	Answer	Answer			
Is there an emergency eyewash station on site?	Answer	Answer			
Is there an emergency safety shower on site?	Answer	Answer			
Does the student have access to all of the above listed items?	Answer	Answer			

5 = Immediate danger to health and safety of student, property, others, and/or resources. Imminent and immediate danger of death or permanent disability.
4 = Probably of injury or illness will occur if not corrected to student or others. Severity of injury or illness will lead to permanent partial disability, temporary total disability.
3 = Injury or illness will likely occur one or more times if not corrected. Results could be a hospitalized major injury or reversible illness.
2 = Possible to occur in time if not corrected. Results could be a hospitalized minor injury, reversible illness.
1 = Injury or illness is unlikely to occur; limited exposure. First aid or minor medical treatment may be needed.

* Pate, M. L., Lawver, R.G., & Chambliss, A. G. (2014). Injury Risk Assessment for Production Based SAEs. Utah State University, Logan UT. https://digitalcommons.usu.edu/aste_facpub/107/

C. [Add school district specific or employer specific requirements here.]

SIGNATURES

Student: _____

Parent/Guardian: _____

Agriculture Instructor: _____