

AET Experience Journals (SAE)

Purpose: This guide provides the steps needed to develop AET Experience Journals, where students record their time invested in SAEs.

Step 1: Develop the AET Experience

First, it is important to choose the correct primary SAE category to establish your project and help begin your journal entries.



Add/Edit Experiences	
Name: ?	Research SAE <input type="text"/> Enter a short descriptive name experience.
SAE Type: ?	Exploration: <input type="radio"/> Exploratory <input type="radio"/> Supplemental <input type="radio"/> Improvement <input type="radio"/> Journal Only
	Agriscience: <input checked="" type="radio"/> Research/Experimental <input type="radio"/> Journal and Finance
	Job: <input type="radio"/> Paid Placement <input type="radio"/> Unpaid Placement <input type="radio"/> Paychecks and Jour
	Business: <input type="radio"/> Entrepreneurship/Ownership <input type="radio"/> Journal and Finance
Primary Experience Category: ?	Power, Structural and Technical Systems <input type="button" value="Explore this Category"/>
Primary Subcategory: ?	Energy (Power) <input type="button"/>

Ver: 10/20/2014

Pathway Summary Descriptions & Details for SAE Journals
Pathway In: Power, Structure and Technical Systems

Code	Summary Activity Description	AFNR Description	Additional AFNR Details
PST.01	Applying physical science and engineering principles	Applying physical science and engineering principles	Select energy sources in power generation appropriate to the situation. Apply physical science laws and principles to identify, classify and use lubricants. Identify and use hand and power tools and equipment for service, construction and fabrication.
PST.02	Operating and maintaining mechanical equipment or structures	Operating and maintaining mechanical equipment or structures	Perform service routines to maintain power units and equipment. Operate, service and diagnose the condition of power units and equipment.
PST.03	Service and repairing equipment	Service and repairing equipment	Troubleshoot and repair internal combustion engines. Utilize manufacturers' guidelines to service and repair the power transmission systems of equipment. Service and repair hydraulic and pneumatic systems. Troubleshoot and service electrical systems. Service vehicle heating and air-conditioning systems.
PST.04	Planning, building, and maintaining structures	Planning, building, and maintaining structures	Service and repair steering, suspension, traction and vehicle performance systems. Create sketches and plans of agricultural structures. Apply structural plans, specifications and building codes. Examine structural requirements for materials and procedures and estimate construction cost. Follow architectural and mechanical plans to construct and/or repair equipment, buildings and facilities.
PST.05	Applying technology to manage equipment or structures	Applying technology to manage equipment or structures	Use instruments and meters to test and monitor electrical and electronic processes. Prepare and/or use electrical drawings to design, install and troubleshoot control systems. Use geospatial technologies in agricultural applications.

Click "Explore this Category" to learn more about the area and suggested activities for time invested. Once you begin to make journal entries, you will choose from these common areas as well as other categories related to the time invested in your project.

Step 2: Recording Time in Your AET Experience (SAE)

All SAE projects require time. Select the JOURNAL tab to enter your invested time and identify common activities across the dates of your experience.

The steps are:



- 2.1 Select appropriate date
- 2.2 Choose your project
- 2.3 Choose an activity
(See step 2.3 below)
- 2.4 Enter hours related to the date and activity
- 2.5 Enter a detailed description of your effort
- 2.6 Add a picture
- 2.7 Identify how your teacher assisted

Date:	Category:
10/15/2014	Experience-related Activity
Experience: ?	Research SAE
Skill/Competency: ?	Using scientific inquiry, conducting investigation
Outside Class Hours: ?	2.00
Description of Activity: ? Check Spelling	Time on the computer doing web searches in journals and other sites to review research on power systems technology
Pictures: ? (optional)	<input checked="" type="checkbox"/> IMG_0081.jpg <input type="button" value="Remove"/> <input type="text"/> <input type="button" value="Select"/>
Supervision: ?	If your Ag Science Teacher visited/supervised your project for this journal entry, please choose the Teacher. The "description" above should include your teacher's assessment, comments, and recommendations for your project. Russell Ewell



Significance of Step 2.3 - Choose the right activity (Skill/Competency)

Based on your AET Experience Category (SAE), your list of activities will open options. For example, a Power Systems research project (such as testing hydrolic power at different RPMs) will expand activities such as:

Idea 1: Select from the standard category list	Idea 2: Explore other categories to find additional activities that relate to your project
<div data-bbox="154 531 738 777"> <ul style="list-style-type: none"> Power, Structural and Technical Systems (PST) Applying physical science, engineering principles <li style="background-color: #e0ffe0;">Operating/maintaining mech. equipment/structures Servicing and repairing equipment Planning, building, and maintaining structures. Using technology to manage equipment or structures </div> <div data-bbox="154 798 738 997"> <p> <i>This is the category selected, and our research potentially involves learning about setting up the study, which involves:</i></p> <p><i>"Operating/maintaining mech. equipment"</i></p> </div>	<div data-bbox="779 531 1388 1081"> <ul style="list-style-type: none"> LifeKnowledge® and Cluster Skills Practicing personal or group leadership Managing personal growth Practicing effective communications Working within teams or organizations Managing and improving organizational structure Dealing with health, safety, and environment Performing first aid and emergency plans Using tools, equipment, machinery and technology Comparing and contrasting issues Planning for emerging technologies <li style="background-color: #e0ffe0;">Using scientific inquiry, conducting investigation </div> <div data-bbox="779 1102 1388 1375"> <p> <i>Life Knowledge and Cluster Skills include common areas related to many projects, and in this case likely involves reviewing other research and ideas to setup the study:</i></p> <p><i>"Using scientific inquiry, conducting an investigation"</i></p> </div>



Significance of Step 2.1 and 2.4 - Enter the date and hours invested

Documenting time invested is the foundation of an AET Journal and should be recorded as frequently as possible. Try connecting your time invested to common activities, which illustrate the educational aspect of your experience.

Date	AET Exp.	Activity (list)	Hrs	Description
9/1	Research	Operating/maintaining	2	Reviewed operating procedures with...
9/5	Research	Using Scientific...	2	Reviewed power system research journals...
9/15	Research	...continue to add	Hrs.	Develop descriptions in your own words...