2025 AGRISKILLS DESCRIPTIONS

Sunday, June 22 ~ 8:00 – 12:00 p.m.

COOL ST 101 - PROJECT CONSTRUCTION: INTERMEDIATE AND ADVANCED**

- 3 Sessions (Sunday AM & PM, Thursday PM)
- Recommend attending all three sessions!
- Class size may be limited so sign up early.

The team is offering a three-session workshop (Sunday morning & afternoon, and Thursday afternoon) designed for Ag Mechanics teachers of all skill levels and seeks to add to the growing arsenal of projects we can select from to teach the skills and concepts our students need to master.

This year, we are focusing on intermediate and advanced Metal Fabrication construction as well as combination wood/metal project construction. Our goal is to give the participants hands-on experience in project planning and construction on projects such as: Aluminum stall dividers, Aluminum TIG welding projects, Steel firepits, benches, Hands on CNC Plasma Cutting with ARCLIGHT Dynamics table and technicians on site, design and build using OnShape.com and Corey Mesa!

Discussion topics include: Teaching methods, project organization/planning, project funding, design changes based on tooling and/or materials, construction and finishing techniques and tricks/tips. The presenters combined have a wealth of knowledge they would love to share. Also a great way for new teachers to make connections. Check out our website here!

Please bring welding or work gloves and safety glasses if you can. Cost is $30 and covers all three sessions, projects will be available to take home.

Presenters: Ryan Patterson, Brian Donovan, Chris Decker, Corey Mesa, Morgan Rourke, Jake Dunn and more!!!

ONSHAPE TUNE-UP: SHARPEN YOUR CAD SKILLS FOR THE SHOP

Whether you're a beginner eager to build a strong foundation or an advanced OnShape user looking for a refresher, this hands-on skills class is designed to help Agriculture teachers streamline their CAD workflow for real-world shop applications.

☑ For Beginners – Build a solid understanding of sketching, constraints, parametric design, and efficient modeling techniques to gain confidence in OnShape.
☑ For Advanced Users – Refresh your skills from last summer, dive into time-saving shortcuts, master complex assemblies, and explore custom features to optimize your design process.

What You'll Learn:

- ◇ Fundamentals of sketching, constraints, and parametric modeling
- ◇ Importing, exporting, and managing files efficiently
- ◇ Collaborative tools & version control for seamless teamwork

- Best practices for multi-part assemblies
- Ready-to-use curriculum and resources to take back to your classroom
- How to introduce OnShape certifications to students

Whether you're starting fresh or brushing up on old skills, this course will help you work smarter, design faster, and create with confidence in OnShape—so you can take these skills back to the classroom and the shop!

- A laptop and external mouse are required (some will be available).
- 3 weeks of curriculum will be provided for participants.
- Recommend attending all three sessions

Presenter: Corey Mesa, Le Grand High School

STORYLINES THAT STICK: REAL-WORLD AGRICULTURAL PHENOMENA MEETS NGSS

In this three part workshop come to explore an agriscience in-person industry experience with an industry professional, plan to launch an anchoring phenomena while learning how to make student thinking visible and completing your agriscience story line by building 5E learning sequences that bridge the gap will using your anchoring phenomena. Leave this workshop with tools and classroom strategies to successfully launch a NGSS aligned unit and collaborate to build a full unit plan. Priority registration will be for those that attend all three workshops.

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Presenters: Dr. Nicole Ray, Cal Poly-SLO, Savannah Rhine, Everett Alvarez High School, and Jessica Sweet, Everett Alvarez High School

BASIC ELECTRICAL WIRING 101

Looking for a way to charge up your Intro to Ag Mechanics Electrical Unit? New to coaching an Ag Mechanics Team and feeling overloaded and under-powered? This workshop is designed with you in mind. It'll start with the basics and will advance as far as we can using the California electrical wiring boards as described in the CATA Curricular Code. Don't have them, borrow from a friend and copy. Simple circuits, 3-way circuits, breaker panel boxes, 240-volt outlets, and basic NEC rules…it's all included in this power packed workshop. All paperwork and references will be supplied along with tips and tricks to make your students successful. What you need to bring as a participant is what your one of your students would need in a contest:

- One California electrical wiring board
- The list of approved tools for the Ag Mechanics CDE per the CATA Curricular Code
- The list of electrical devices used in the Ag Mechanics CDE per the CATA Curricular Code
- Assorted wire nuts/connectors
- 15' of 14-2-G NM cable
- 15' of 14-3-G NM cable
- 20' of 14 gage single strand wire in white, black, red and green or bare…all 4 colors needed

If you're not sure of exactly what is needed, contact me at darolfishman@gmail.com

Presenter: Darol Fishman

AG CHEMISTRY & COMMUNICATION FOR ALL!

Ready to spice up your agriscience and communication game? In this new workshop, participants will be learning how to make agriscience fun, learn to collaborate with general science teachers, and communicate effectively for your program's needs!

- Curriculum and Relevant Handouts provided

Presenters: Jackie Taylor-Atkinson, Reedley High School

FUN WITH FOLIAGE

Dive into a world of whimsical woodland charm in our Fun with Foliage workshop! Learn how to create enchanting centerpieces using a variety of fresh foliage, dried goods, and non-traditional elements like moss, bark, pods, and forest-inspired textures. In this hands-on session, you'll explore basic floral design principles, foliage manipulation techniques, and creative combinations to bring your centerpiece visions to life.

- Limited to 25 participants
- $50 workshop fee
- Required for participant to bring wire cutters, floral shears & cold glue

Presenters: Jennifer Downs, Bakersfield Frontier and Tanya Love, Bakersfield Highland

PROJECT-BASED LEARNING MORE THAN JUST PROJECTS

Ag teachers are great at doing projects but are we really teaching project-based learning and could we be better? Learn about the 9 elements of project-based learning and take some time to build a project that you will use next year.

- A charged laptop is required for participants
- Any worksheets or documents will be provided.

Presenter: Ryan Deaver, Avenal High School

AI IN AGRICULTURE

This hands-on workshop is designed for high school agriculture teachers to explore the fundamentals of Artificial Intelligence (AI) and its transformative applications in modern farming. Participants will gain practical insights into how AI is used in precision agriculture, crop monitoring, automation, and data-driven decision-making.

Through interactive demonstrations, real-world case studies, and hands-on activities using accessible AI tools, educators will learn how to integrate AI concepts into their curriculum and inspire students to engage with cutting-edge agricultural technologies. No prior AI experience is required—just a passion for teaching and a curiosity about the future of agriculture!

- Limited to 15 participants.
- A laptop is required

Presenters: Dr. Bo Liu, BioResource and Agricultural Engineering

ROBOTICS AND AGRICULTURE. HOW TO INCORPORATE TECH INTO ALL SECTORS OF YOUR CURRICULUM

Gear up for hands-on robotics in your classroom with the cyber:bot. This robotics kit combines a complete curriculum, the Python language interpreter and micro:bit controller, a browser-based programming environment (no FERPA/COPPA compliance or IT staff requests), and the

recently block programming added with MakeCode. The strengths of this robot are in coding, robotics, cybersecurity, wireless control, and electronic circuit building. Educators view the cyber:bot as a path forward with relevant industry skills. Designed with high school in mind, this program adapts well to middle school and college too.

Workshop activities:

- Set up your micro:bit module programming connection and write some practice scripts Write Python or MakeCode scripts to calibrate and control the robot's servo motors
- Assemble your cyber:bot robot
- Connect sensor circuits and write scripts for autonomous robot navigation
- Survey the student and educator resources including the cyber:bot and cybersecurity tutorials and assessment materials.

Presenters: Eric Dyer and Kelly Scott, University of California, Agriculture and Natural Resources with the Farm Robotics Challenge

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- ◇ Collaborative tools & version control for seamless teamwork
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POULTRY PROCESSING 101: BEST PRACTICES FOR SAFETY AND COMPLIANCE

This workshop is focused on providing essential knowledge and educational tools to support student career readiness in the poultry industry. The workshop will provide you with curriculum to teach basic Poultry 101. This information will prepare you to complete the industry-backed Broiler Processing Key Welfare Indicators Certification online course, which aims to introduce practical and critical knowledge skillsets for learners in the broiler processing industry. Learning topics include welfare assessment, measurement, and improvement for critical areas of practical welfare evaluation. The credential developed by the Center for the Optimization of Poultry (COOP) is backed by the International Poultry Welfare Alliance and was developed based on advisory personnel from organizations such as Foster Farms, Cargill, and McDonalds. By the end of the workshop, you will improve your teaching capabilities in these subject areas to prepare your students with the prerequisite knowledge needed to complete and be certified in the Broiler Processing Key Welfare Indicator modules.

- Limited to 30 participants
- $25 per certification (up to $100 for all 4 certifications)
- Propper PPE and laptop are required
- Materials provided include curriculum for high school students & 1-4 certification opportunities for teachers.

Presenters: Dr. Jesse Bower, COOP Center for the Optimization of Poultry, Institute for Food and Agriculture, Fresno State

FUN WITH FOLIAGE

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AGRICULTURE INSTRUCTION, USING REGENERATIVE AI

In this interactive and practical workshop, agriculture teachers will explore how generative AI tools-like ChatGPT, CLAUDE, and others-can revolutionize classroom planning, student engagement, and resource creation. Participants will learn how to harness AI to save time on tasks such as lesson planning, quiz generation, and content differentiation while also discovering new ways to inspire creativity in their students.

Key topics include:

- Automating routine tasks: creating rubrics, newsletters, and instructional materials in seconds
- Enhancing student learning: generating custom case studies, simulations, and ag-themed writing prompts
- Visual storytelling: using AI to generate images of crops, equipment, and ecosystems for more engaging lessons
- Responsible AI use: understanding best practices, limitations, and ethical considerations in the classroom

Bring your laptop, tablet or smartphone. Attendees will leave with hands-on experience, ready-to-use AI prompts, and a digital toolkit for integrating generative AI into their agriculture programs. No technical background required-just curiosity and a willingness to experiment!

Presenters: Kevin Woodard, Reedley College

BRIDGING THE GAP: EFFECTIVE STRATEGIES FOR SUPPORTING ELL STUDENTS

In this interactive session, we will explore proven strategies to help English Language Learners (ELLs) thrive in the classroom. Whether you're new to teaching ELLs or looking to strengthen your existing practices, this workshop will provide practical tools for fostering an inclusive and supportive learning environment. Topics will include scaffolding techniques, building language proficiency through content-based instruction, and implementing culturally responsive teaching methods. Attendees will leave with actionable strategies to enhance communication, improve student engagement, and help ELL students bridge the gap to academic success.

Presenter: Dr. Natalie Baumgartner, California State University, Fresno

GEARING UP FOR SUCCESS: PREPARING STUDENTS FOR THE NEW EQUIPMENT TECHNICIAN CONTEST

Join us for an in-depth, hands-on workshop designed to help high school agriculture teachers successfully prepare their students for the new Equipment Technician Contest. This session

will provide a comprehensive overview of the contest structure, ensuring instructors understand each component and how to best coach their students for success.

Participants will engage in interactive Technical Skill Stations, mirroring the hands-on assessments students will face in the competition. These stations will cover key areas such as precision measurement, electrical diagnostics, hydraulic systems, and mechanical adjustments.

Additionally, instructors will gain valuable insight into the Team Troubleshooting portion, where they will diagnose and repair a mechanical issue on a tractor. This workshop will provide hands-on guidance in troubleshooting strategies, fundamental diagnostic procedures, and best practices for coaching student teams to efficiently solve problems under timed conditions.

By the end of the workshop, participants will leave with a solid understanding of contest expectations, instructional strategies, and hands-on experience to confidently prepare their students for this exciting new competition.

Presenters: Arthur Faria, Reedley College Mechanized Agriculture

ROBOTICS AND AGRICULTURE. HOW TO INCORPORATE TECH INTO ALL SECTORS OF YOUR CURRICULUM

Gear up for hands-on robotics in your classroom with the cyber:bot. This robotics kit combines a complete curriculum, the Python language interpreter and micro:bit controller, a browser-based programming environment (no FERPA/COPPA compliance or IT staff requests), and the recently block programming added with MakeCode. The strengths of this robot are in coding, robotics, cybersecurity, wireless control, and electronic circuit building. Educators view the cyber:bot as a path forward with relevant industry skills. Designed with high school in mind, this program adapts well to middle school and college too.

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POULTRY PROCESSING 101 CONTINUED: BROILER PROCESSING LAB

This hands-on workshop introduces participants to the essential steps of commercial poultry processing, focusing on both animal welfare and food safety. Participants will follow the journey of a broiler chicken from live bird to a final product. This interactive session will introduce participants to the key steps of commercial poultry processing, from live bird handling to chilling. Participants will explore humane stunning, bleeding, scalding, feather removal, evisceration, washing, and chilling. Emphasis is placed on animal welfare, food safety, and industry standards. By the end of the session, students will gain a clear understanding of how poultry is processed in commercial settings and how these steps connect to career pathways in the poultry industry. Together, these sessions offered a comprehensive, experiential learning opportunity to enhance participants' instructional capacity in poultry processing and prepare students for career-ready skill development in alignment with industry expectations.

- Limited to 30 participants
- You must participate in the Sunday workshop as well.
- Propper PPE and laptop are required

Presenters: Dr. Jesse Bower, COOP Center for the Optimization of Poultry, Institute for Food and Agriculture, Fresno State
Dr. Ike Kang, Professor of Animal Science Cal Poly - San Luis Obispo

SAE CASE STUDY WORKSHOP - FROM STUDENTS GETTING STARTED TO ADVANCED LIVESTOCK MGMT

In this workshop, you will be the student and simulate completing a student profile and career exploration (foundational SAE) to a more complex breeding and market livestock or business SAE project. As you do the work, I will play the role of the teacher and provide assignments, view the class's progress, reward those who are doing well, and simulate the grading — all the tools that teachers use to track progress and keep students motivated! Specifically, the workshop will begin with tips on how to add students quickly to our example school and have all students complete our new career prep/foundational record entry, which helps them develop a foundational SAE and get started. We will then move on to you as a student beginning ag education with SAE-related inventory, how to enter it, and develop a breeding or market livestock SAE project. We will then move to having a business SAE where the student manages an apiary business that generates income from pollination work and selling honey products. We will also simulate ending inventory and how all of the values flow into reports and FFA award applications. Each attendee will be provided a SAE simulation packet to show entries and use as examples for your program.

Presenter: Roger Hanagriff, AET Management System

MAKING NOTEBOOKS WORK FOR YOU

Notebooks are all the rage, but how do we make them work in our classroom and department? Let's discover the BASICS of note booking and how to make it valuable to YOU. We will learn how to set up notebooks, note booking strategies, tips and tricks for different content areas, and gain insight into the benefits of utilizing notebooks in the classroom.

- Will provide curriculum samples, note booking supply lists, and sample notebooks.

Presenter: Ms. Hannah Bianchi- Riverdale High School

STARTING YOUR SCHOOL YEAR EFFICIENTLY AND EFFECTIVELY- PHILOSOPHIES, PARAMETERS, AND RESOURCES

Doing the most in the least amount of time" and "Efficiency and productivity" will be the primary focus on four main areas of being organized and prepared in (1) Start of School Classroom Management Practices, (2) Grading Policies and Utilizing Canvas, (3) Starting and/or Expanding A/Your Plant Sale, and (4) Organizing/Implementing a Livestock SAE Program for the Fair. Each topic will include templates and resources you can utilize and revise to best fit one's needs/interests. Attendees are encouraged to bring a laptop to access shared files and resources.

- Computer/ Laptop is HIGHLY encouraged to bring
- File templates and resources will be provided and shared

Presenters: Dave Gossman, Atwater High School

DESIGN OF A LANDSCAPE IRRIGATION SYSTEM

Lecture and lab on how to design and test a sprinkler system for landscape irrigation. The lecture will include basics on designing a system, including valve and sprinkler selection, calculating head loss, and laying out a system. Lab will include assembling and testing a sprinkler system with two different types of sprinklers and a catch can test so teachers can see how to illustrate the water distribution of a single sprinkler.

- Limited to 24 participants

- Hunter Irrigation Production Manual provided

Presenters: Dr. Peter Livingston, PE- BRAE/ Cal Poly SLO

TRAILER OPERATIONS AND SAFETY

There is no need to be intimidated with the thought of pulling a trailer. We will take a look at all the things you will need to know about trailering. This will include safety, hitching, and the behind the wheel practice of operating bumper pull and gooseneck trailers.

- A trailer safety packet will be provided to you

Presenters: Steve Parker, Taft Union High School

NURSERY/LANDSCAPE CDE WORKSHOP

Looking for something different to coach this season? Curious about where to start for Nursery/Landscape? Swing on by and check out this amazing contest that can provide endless opportunities for students.

- Worksheets will be provided for participants

Presenter: Beatriz Rodriguez-Rivera- Sunnyside High School

LET'S GET DIRTY! UNDERSTANDING THE SOILS AND LAND EVALUATION CONTEST

This workshop is designed to prepare Ag Teachers to coach students for the California State FFA Soil and Land Evaluation contests held each year in California. We will cover the best methods to train, practice, and prepare a team for soil judging. Methods also include how a contest site is set up by hosts and how soil pits are evaluated. If you do not like reasons and love to play in the dirt, this CDE is your sandbox.

- For the outside activity it is recommended that participants wear a long-sleeved shirt, hat, sunblock device, and comfortable shoes for possible hiking.
- Recommended materials include a small digging tool and a bottle of water.

Presenter: Sam Meredith, Atwater High School