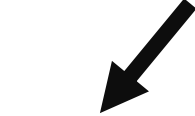




Rancho Cielo – Ag Processing & Mechanics

LIVING WAGE JOBS + HIGH SCHOOL DIPLOMA!

What will I gain from the Ag Processing & Mechanics Program?



Hands On Experience

- Maintain & repair machinery + equipment that is essential to the agriculture industry.



Education

- High School Diploma
- Small Class Sizes
- Custom Learning Plans



Employment Skills & Supportive Services

- College & Career Guidance
- Life Skills Training
- Job Training Readiness
- Leadership Opportunities
- Personal Counseling
- Transportation

Will I gain college/industry exposure through this program?

Hartnell Community College Instructors and Industry Experts

You will have the opportunity to learn from Hartnell Instructors and individuals currently working in the field. This will prepare you for the Refrigerating Engineers and Technicians Association, (RETA) Examination.



1ST Semester:

- Food Safety
- Safety/ Hazards
- Industrial Refrigeration 1
- Ag Mechanics

2nd Semester Classes:

- Basic Electrical 1
- Basic Electrical 2
- Ag Mechanics

Will I be able to obtain a Certificate?

RETA Entry-Level Certification

You may apply for the RETA exam, which will allow you to obtain an entry-level certification: CARO, Certified Assistant Refrigeration Operator.

After Rancho Cielo.....

Post Secondary Education:

Hartnell Community College

Entry Level Careers:

Refrigeration Operator & Service Technician – Avg. \$17/hr Rate

Mid Level Careers:

Refrigeration Mechanic & Maintenance Mechanic – Avg. \$26/hr Rate

Semester 1 Courses:

Food Safety:

- You will obtain skills that are essential in the agriculture and food manufacturing industries.
- You will leave knowing current food safety protocols required by the agriculture industry.
- You will understand prevention relevant to produce, processing and cold-storage facilities.

AG Mechanics:

- Maintenance and repair of the salad processing equipment.
(Semester 1+2)

Safety/Hazards:

You will learn the basic workplace safety protocols, basic workplace communication protocols, and safe tool use (Hand & Powered.)

Upon completion of the course, you will be able to:

- Demonstrate basic workplace safety protocols within an industrial refrigeration setting.
- Demonstrate ability to solve basic, on the job mathematic questions.
- Model safe tool use for both hand and powered tools.
- Recognize and interpret symbols on basic industrial blueprint schematic drawings.
- Model appropriate industrial materials safe handling protocols.

Industrial Refrigeration Fundamentals:

Introduction of post-harvest vegetables and fruit cooling by mechanical refrigeration. This course will help you become knowledgeable and proficient in the refrigeration system.

Upon completion of the course, you will be able to:

- Identify the hazards, risks, and threats of refrigerants and other chemicals commonly used at refrigeration facilities.
- Identify & apply the laws that affect the function and performance of industrial refrigeration systems.
- Identify and describe the function of components used in an industrial refrigeration system.
- Demonstrate safe work practices common in Salinas cooler and cold storage facilities.

Students may apply for the RETA- CARO Certification after completing this course.

Semester 2 Courses:

Basic Electricity 1:

An introductory study of electrical wiring techniques and practices used in industrial refrigeration program.

Upon completion of the course, you will be able to:

- Identify and explain the most important basic principles of electricity.
- Demonstrate safe practices and handling of tools.
- Interpret essential electrical codes and practices.
- Formulate a solid waste management plan for electrical job.

Industrial Refrigeration Basic Electricity 2 – Ladder:

Continuation of the Electricity 1 course. You will learn the common control practices for compressors and evaporator defrost cycles, as well as safe troubleshooting techniques.

Upon completion of the course, you will be able to:

- Model electrical safety practices.
- Understand the structure of a ladder diagram.
- Possess knowledge of electrical control logic.
- Be knowledgeable about the introduction to Programmable Logic Controllers (PLCs) and computer control systems.
- Understand electromechanical and electronic defrost control circuits.