



# Craft Training Center of the Coastal Bend

## “The Future of America JH Summer Camp”



The Craft Training Center of the Coastal Bend has developed a summer school camp, “The Future of America”, to work with Junior High/Middle School Students (Grades 6, 7, 8) in order to provide hands-on activities in Construction Trade areas. The emphasis of the summer school program will be on Career Awareness, Math, Science and Safety applications in the following areas:

1. **Industrial Career Exploration:** An overview of career opportunities in industrial fields that pay \$60,000 + per year based on individual skills.
2. **Scaffold-Building:** Actual scaffold building activities will be done by students.
3. **Instrumentation:** Measurement and math applications are used in conjunction with the science of controlling pressure with emphasis on safety.
4. **Pipefitting:** Application of geometry and trigonometry skills will be used to figure angles and reducers. Students will use centerlines in order to correctly follow blueprints.
5. **Hand Tools:** Identification and demonstration of each type of hand tool. Students will be allowed to use hand tools under close supervision.
6. **Power Tools:** Identification and demonstration of each type of power tool. Students will be allowed to use power tools under close supervision.
7. **Construction Drawing and Math:** The students will spend time in each subject, learning the necessity of math in planning and design in order to produce useable working drawings.
8. **Welding:** After a heavy emphasis on safety, the students will be divided into two groups to use the oxy-acetylene cutting torch. The properties of both oxygen and acetylene will be explained and then they will cut some metal plate. The students will also discuss the use of Shielded Metal Arc Welding (SMAW) and then weld beads. The Science of flux and shield gas will also be addressed.
9. **Plumbing:** The students will use math for pipe layout and study the use of chemicals in germ and disease control. There will be hands-on practice in connections and installation of plumbing fixtures.
10. **Electrical:** Students will explore and participate in residential, commercial and industrial electrical hands-on activities in connection with and installation of electrical components.

**Information:** The CTCCB staff recommends six hours a day, five days a week for two weeks for a total of 60 hours over a ten day span for the summer camp. *(Schools may request to attend 3 hours a day for two weeks.)* Students should arrive prepared to work every day and must wear blue jeans or khakis, leather footwear and a long sleeve shirt. The CTCCB will provide safety glasses as well as personal protective equipment.

**Projected Program Outcome:** The student taking part in the summer school program will attain general knowledge of the crafts trades and requirements to become a journeyman craftsman. The student will apply math and science skills in these activities and will understand the need for and practice the rules of safety as outlined in industry standards.

**Student Drug Testing:** All summer camp participants will be required to take a drug test. *(See attached forms.)*

**Questions about the camp should be directed to Wayne Kelly, President at (361) 289-1636.**

## ***“The Future of America Summer Camp”***

### ***Craft Training Center of the Coastal Bend JH Summer Program***

The Craft Training Center of the Coastal Bend conducts a summer school camp, “The Future of America Summer Camp” in order to provide hands-on activities in the Construction Trade areas for junior high/middle school students. The emphasis of the summer school program focuses on Career Awareness, Math Applications, Science Applications and important Safety procedures in the following areas: Industrial Career Exploration, Scaffold-Building, Instrumentation, Pipefitting, Hand Tools, Power Tools, Construction Drawings, Construction Mathematics, Welding, Plumbing, Electrical, Fall Protection and Hazardous Materials Handling.

The JH camps are conducted in a two week period, six hours a day for a total of 60 hours over a ten day span. The students receive intense instruction in a round-robin format rotating through different instructional stations throughout the day. The students receive a 30 minute lunch during this training and at the end of the day they are quizzed by the instructors of the day on the items that were taught. The instructors randomly pick a student’s name out of a bucket and when a student’s name is called out the student must stand and answer the question that is posed by the instructor. We do this in order to teach students how to think on their feet. Those students that answer the question correctly are eligible to come up to the front on the room and select a prize that is on the front table. If they do not get the question right then their name goes back in the bucket for another try. This procedure is followed for the eight days of instruction. On the ninth day of instruction the students compete in an Olympic Craft Competition. The students are broken down into teams of three and then they compete in all of the crafts that they previously learned. Points are tallied for correct answers and first, second, and third place awards are established. The last day of instruction includes a Corpus Christi Port Corridor tour in order for students to understand the different industrial areas in the Coastal Bend. At lunch they are taken to a local pizza place and then they return to the Craft Training Center to find out who place 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> in the Craft Competition. The awards assembly concludes the end of the camp.

***All of the students that participate in this summer camp must pass a drug test.*** Students are required to wear blue jeans or khakis, leather foot-wear and a long sleeve shirt and are required to work every day during the camp. The Craft Training Center provides safety glasses as well as personal protective equipment for each activity.

The projected outcome of this camp is for the students to attain general knowledge of the crafts trades and learn about the requirements to become a journeyman craftsman. The students apply math and science skills in these activities and understand the need for and practice the rules of safety as outlined in industry standards.

This type of summer camp is another tool in developing a workforce in our area. Currently there is a great need for skilled workers in the Coastal Bend area and the Craft Training Center is trying to help address these needs by hosting a summer camps to build our future craftsman!

### **2023 CTC Junior High Summer Camp Schedule:**

**June 5 – June 16**

**June 19 – June 30**

**July 10 – July 21**