# WELCOMS

# FREE DRONE LESSONS FOR DRONE TEACHERS

Sponsored By:





### IBC CCMR For K-12

UAV/JROTC/Engineering/Robo/Ag/Sports/Aviation/Aerospace Real Estate/Construction/Energy/And more



### Drone Pro Training

Government/Municipalities/Corporations/Individuals

# INSTRUCTOR: JOE PANEITZ

- ICONIC DRONE EDUCATION TEACHER/DESIGNER
- FAA FAAST DRONE PRO
- TEACHER SINCE 2004
- 6 YRS HIGH SCHOOL DRONETEACHER
  - (99% FAA PART 107 IBC EXAM PASS
- REGION IV TEXAS TEACHER OF THE YEAR
- HUMBLE ISD TEACHER OF THE YEAR
- CHANNELVIEW ISD TEACHER OF THE YEAR
- ATPE HUMBLE TEACHER OF THE YEAR
- GULF COAST EDUCATORS TEACHER OF THE YEAR
- HONOR MEDAL CROSSED PALMS
- CIVILIAN CONGRESSIONAL MEDAL OF HONOR FINALIST

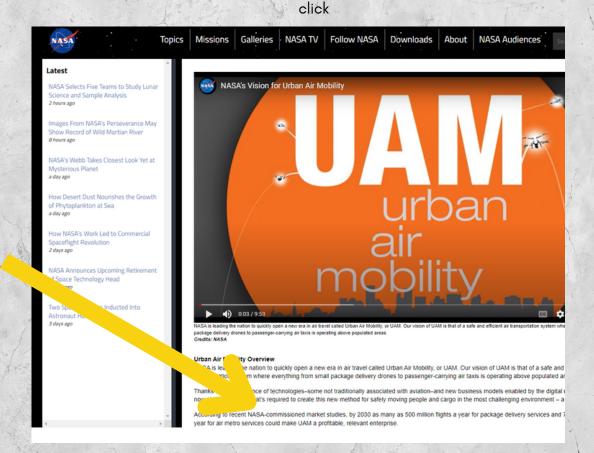






# WHY IS ALL THIS IMPORTANT TO SCHOOLS, INDIVIDUALS, BUSINESSES, GOVERMENT, CORPORATIONS?

According to recent NASA-commissioned market studies, by 2030 as many as 500 million flights a year for package delivery services and 750 million flights a year for air metro services could make UAM a profitable, relevant enterprise.







# TODAY'S LINEUP

- Jobs Report
- HS Industry Based Certification (What is 107?)
- Recreational vs Commercial
- Critical Laws
- Drones for Sporting Events (UIL)
- Upcoming FAA Law (Remote ID)
- Regional Program of Study
- Registering Your Drone
- Drone Education for Elementary and Middle







# JOB'S REPORT

\$1.25 TRILLION - 2030 59% CAGR

Jobs Come to Your Phone

**Drone Up** 

Drone Base



### Market Overview

The global commercial drone market size was valued at USD 20.8 billion in 2021. It is expected to reach USD 1,205 billion by 2030, growing at a CAGR of 57% during the forecast period (2022–2030).

A commercial drone is defined as a quadcopter, octocopter, or hexacopter used for commercial purposes rather than personal and recreational use. Commercial drones operate in the same way that personal drones do. They are outfitted with flight control computers and sensors to hover and perform programmed movements. Commercial drones can do more than hover or fly back and forth. They are equipped with high-definition thermal cameras that allow the pilots to see what the drone sees in real-time. Furthermore, some drones can stay in the air for hours and fly hundreds of feet.

Drones are deployed for various tasks, including filming and emergency response. Due to their capacity to survey the property, offer ongoing and accurate project alerts, increase safety, and prevent hazardous accidents on construction sites, these devices are also in high demand in the real estate and construction sectors. Drone business use cases have expanded significantly over the past few years. Designing, evaluating, and upgrading solutions for diverse markets is an ongoing task for market participants like drone producers and software providers.

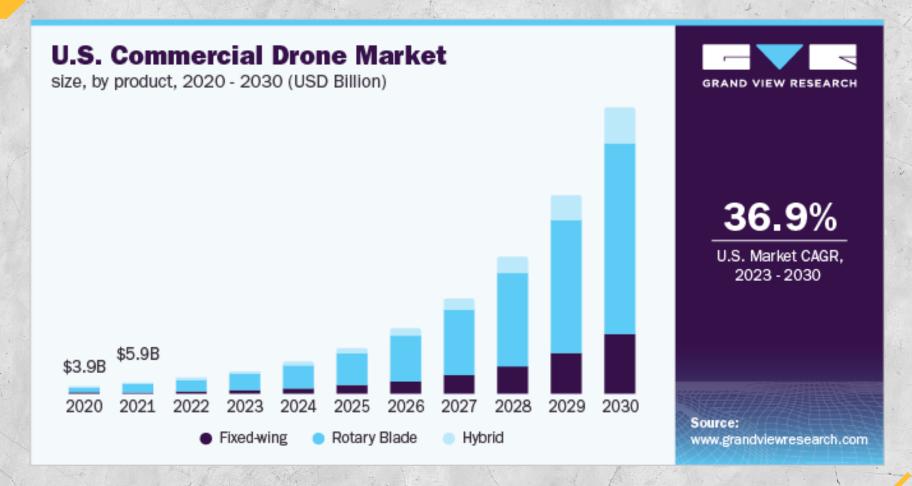
\$150/hr Avg.







# JOB'S REPORT (MORE CONSERVATIVE BUT....BOOM!)

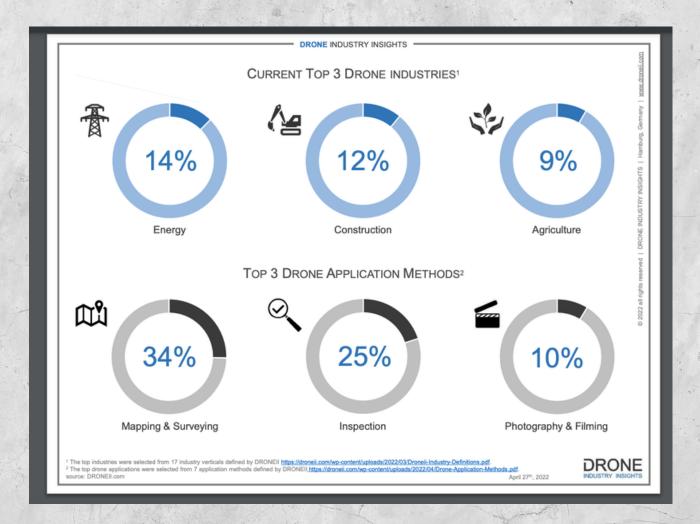








# JOB'S REPORT









# INDUSTRY BASED CERT (2022-24 IBC LIST FOR ACCOUNTABILITY) #534

2022-24 Industry-Based Certification (IBC) List for Public School Accountability

Updated 1/24/2023

IBC ID	IBC Title	Certifying Entity 1 Name	Certifying Entity 2 Name	Certifying Entity 3 Name	Certifying Entity 4 Name	Certifying Entity 5 Name	Certifying Entity 6 Name
530		National Registry of					
	Emergency Medical Technician - Basic	Emergency Medical					
		Technicians (1010)					
1071	Employment Ready Certification - Air Conditioning	ESCO Group (290)					
1072	Employment Ready Certification - Electrical	ESCO Group (290)					
1073	Employment Ready Certification - Gas Heat	ESCO Group (290)					
1074	Employment Ready Certification - Heat Pumps	ESCO Group (290)					
1075	Employment Ready Certification - Light Commercial Air Conditioning	ESCO Group (290)					
989	Engineering Technology Foundations	NOCTI (440)					
512	Entrepreneurship and Small Business	Certiport (250)					
		National Horse Judging					
990	Equine Management & Evaluation Certification	Team Coaches' Association					
		(1000)					
		Federal Aviation					
534	FAA Part 107 Remote Drone Pilot	Administration (850)					
991	Facebook Digital Marketing Associate Certification	Facebook (Metal(830)					
535	FANUC Robot Operator 1	FANUC America (840)	1				
333	THIRD HOUSE OPERATOR S						
536	Feedyard Technician in Cattle Care and Handling	Texas Cattle Feeders Association (540)					
537	Feedyard Technician in Machinery Operation, Repair and Maintenance	Texas Cattle Feeders					
	recognitive recommendation of operations, repair and maintenance	Association (540)					
992		National Coalition of					
	FESTO Certified Industry 4.0 Associate Fundamentals	Certification Centers (NC3)					
		(980)					
993	Food Protection Manager Certification	American National					
	1 you 1 telebrat manager certaineason	Standards Institute (700)					
		American Meat Science					
994	Food Safety & Science Certification	Association (690)					
995	General Management	NOCTI (440)					
539	Google Cloud Certified Professional - Cloud Architect	Google (860)		1		1	
996	Google IT Support Professional Certificate	Google (860)					
		NOCTI (440)					
997	Graphic Production Technology - Job Ready						
1000	HBI Pre-Apprenticeship Certificate Training (PACT), Basic Carpentry	Home Builders Institute		1			
		(880)					
1002	HBI Pre-Apprenticeship Certificate Training (PACT), Basic Electrical	Home Builders Institute					
2002	norm-re-reparenteesing ceronicate maining (rinch), basic electrical	(880)					
		Home Builders Institute					
998	HBI Pre-Apprenticeship Certificate Training (PACT), Brick Masonry	(880)					
	HBI Pre-Apprenticeship Certificate Training (PACT), Building Construction	Home Builders Institute					
999	Technology	rome bonders institute					
	Technology	1994					
1001	HBI Pre-Apprenticeship Certificate Training (PACT), Core	Home Builders Institute					
		(880)					
1003	HBI Pre-Apprenticeship Certificate Training (PACT), Green Core	Home Builders Institute				Λ.σ.	tivate Windows
1003	norre-Apprendición poerondace training (ACT), dreen cure	(880)					
	HBI Pre-Apprenticeship Certificate Training (PACT), Heating, Ventilation and Air	Home Builders Institute				Go	o Settings to activat
1004	Conditioning	(880)	1	1	1		
1076	Heating, Electrical, & Air Conditioning Technology (H.E.A.T.)	ESCO Group (290)					
1076	Heaving, Electrical, at Air Conditioning rechnology (N.C.A.I.)	110/07/14/07					







# INDUSTRY BASED CERT

14YRS TO TEST, 16 TO USE LICENSE, PASS TEST BE IN GOOD PHYSICAL/MENTAL CONDITION READ, SPEAK, UNDERSTAND ENGLISH









SO I'M CERTIFIED, NOW WHAT

- · LEARN TO FLY A DRONE
- LEARN ESSENTIAL KNOWLEDGE AND SKILLS
- · SPECIALTY SKILLS TRAINING
  - · SAR
  - **OINSPECTION**
  - EVENTS
  - · AND MORE
- PRACTICE PRACTICE PRACTICE







### RECREATIONAL VS COMMERCIAL

# IF USING YOUR DRONE FOR ANY JOB OR COMMERCIAL APPLICATION, MUST HAVE FAA PART 107 LICENSE



- Paid use of drones (commercial)
- 20-30 hours test prep
- \$175 test fee
- Still Don't Know How to Fly a Drone





- Non paid use of drones (recreational)
- 45 minutes to complete
- Free online





### CRITICAL LAWS

not gonno be soved from this one!
YOUR MOM/DAD, PRINCIPAL, COACH,
LOCAL POLICE, FAMILY FRIEND, OR
ANYONE.. THE FBI/FAA GOVERN THIS

### From FAA.gov

"Failure to register a drone that requires registration may result in regulatory and criminal penalties. The FAA may assess civil penalties up to \$27,500. Criminal penalties include fines of up to \$250,000 and/or imprisonment for up to three (3) years.Apr 11, 2023"

- Flying at night, flying over people, flying in/near stadiums, flying without license, flying in controlled airspace without ATC approval, state laws, local laws, Drone Zones, and the list goes on....
- Governed by FAA and FBI (Click to See It in the News)



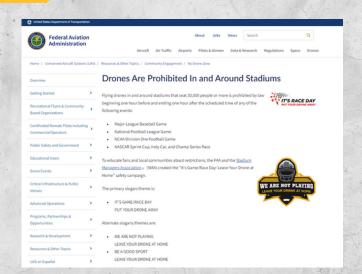




### DRONES AND SPORTING EVENTS

### **Schools Functions**

Click



### Click

# Non School

- NBA, NFL, NASCAR, NCAA
- 1 hour b4/after event
- stadiums 30k and more
- 'FBI Charges Drone Pilot'

### RULE

### **DRONE POLICY - UIL AND TAPPS**

The UIL and TAPPS have created the following policies for the use of drones by its member schools:

### **UIL Policy:**

In compliance with all applicable FAA regulations and related law, subject to local discretion, drones may be used for practice purposes only.

Drones shall not be used in conjunction with any scrimmage or game.

### **TAPPS Policy:**

### Drones

Use of drones during competition

- 2. TAPPS rules are in compliance with all applicable FAA regulations and related law
- 3. Contests

a.Practice - subject to local discretion drones may be used

b.Scrimmages and games - Drones shall not be used during warm up, contest or half time

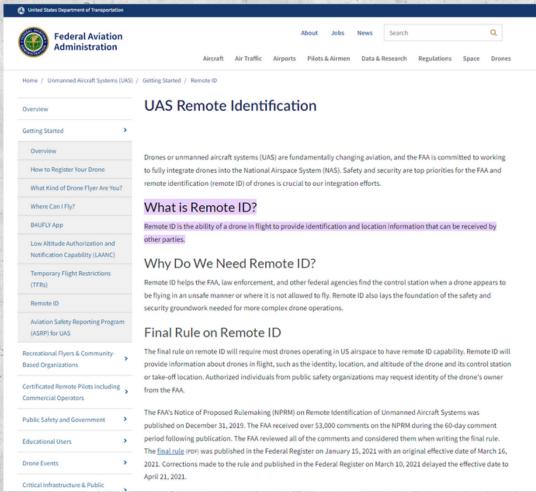






# UPCOMING LAW (REMOTE ID SEPTEMBER 16, 2023)

# FAA list of drones with remote id











# REGIONAL PROGRAMS OF STUDY (UAV)

DON'T FORGET TO CHECK OUT NEW COMPLETER RULES

### click

### Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

### **Drone (Unmanned Flight)** *Regional Program of Study*





The Drone-Unmanned Flight regional program of study introduces CTE learners to the occupations and education opportunities related to operating or designing an unmanned aircraft using a ground-based controller and the systems of communications between the controller and the aircraft.

### Secondary Courses for High School Credit

#### Level 1

- Introduction to Unmanned Aerial Vehicles (UAV)
- Introduction to Aerospace and Aviation

#### Level 2

Robotics I

#### Level 3

- Robotics II
- Digital Electronics
- Engineering Science

### Level 4

- · Practicum in Manufacturing
- · Scientific Research and Design

#### **Postsecondary Opportunities**

#### **Associates Degrees**

· Airline Pilots, Copilots, and Flight Engineers

#### Work-Based Learning and Expanded Learning Opportunities

### **Exploration Activities**

#### Work-Based Learning Activities

- Participate in
- SkillsUSA
   Explore virtual aviation websites
- Work part-time at an aviation services agency, drone company, or airline

company

### **Industry-Based Certifications**

- FAA Part 107 Remote Drone Pilot
- ------
- Certified Aerospace Technician\*
- ISCET Certified Electronics Technicians\*

\*IBC sunsetting 8/31/24

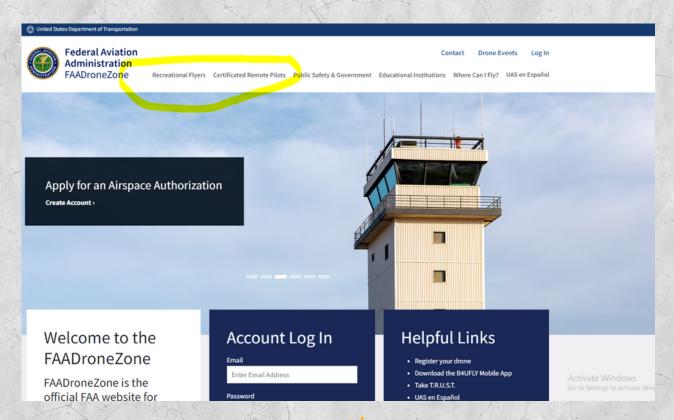








### HOW TO REGISTER YOUR DRONE \$5 BUCKS SAVES YOU \$250,000 AND UP TO 3 YEARS FED PEN



















# START EARLY! START NOW DRONES IN ELEMENTARY/MIDDLE

click





CLICK TO LEARN MORE







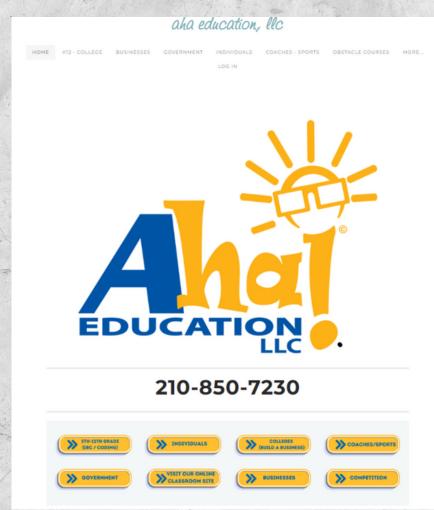


# MORE INFORMATIOIN HOW TO BEGIN

click

### Drone edu for

- schools
- K-12
- companies
- goverment
- individuals



### Other

- drone obstacle courses
- drone/STEM mobile classroom
- drone competition







# CONTACTAHA



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Message (click here)





