



Sierra Space selects logistics hub for Dream Chaser craft

Description

Next year, construction will start on a huge spacecraft processing facility at NASA's Kennedy Space Center. This spaceplane processing facility will prepare Sierra Space's Dream Chaser for missions to the International Space Station. All Points Logistics, based in Merritt Island, will partner with Sierra Space to provide services like payload integration before launch.

"Our current spaceport infrastructure is struggling to keep up with the demand for launches," said Kevin Brown, from All Points Logistics. The new facility aims to meet the needs of modern spacecraft technologies by offering testing and integration services before launch. Once the spacecraft leaves the facility, it heads to the launch pad for liftoff.

The Dream Chaser space plane named "Tenacity" is getting ready for its first flight from Cape Canaveral. It will carry 7,800 pounds of cargo to the ISS and then return to Earth, landing like a space shuttle. Sierra Space hopes that the new facility will simplify turnaround preparations for future Dream Chaser flights.

This development is part of ongoing efforts to enhance spacecraft testing and launch services at Kennedy Space Center, providing essential support for space missions. Visit floridatoday.com/space for the latest news on space developments in Cape Canaveral and NASA's Kennedy Space Center.

Vocabulary List:

1. **Facility** /fə'sɪlɪti/ (noun): A building or equipment that serves a specific function.
2. **Integration** /,ɪntɪ'greɪʃən/ (noun): The process of combining parts into a whole.
3. **Infrastructure** /'ɪnfə,striktʃər/ (noun): The basic physical and organizational structures needed for the operation of a society or enterprise.
4. **Turnaround** /'tɜrnə,raʊnd/ (noun): The time taken to prepare a spacecraft for its next flight.
5. **Demand** /dɪ'mænd/ (noun): The desire of consumers to purchase goods or services.
6. **Enhance** /ɪn'hæns/ (verb): To improve the quality value or extent of something.

Comprehension Questions

Multiple Choice



1. Who will provide services like payload integration for Sierra Space's Dream Chaser?
Option: NASA
Option: All Points Logistics
Option: Kennedy Space Center
Option: Sierra Space
2. What is the name of the Dream Chaser space plane getting ready for its first flight?
Option: Integrity
Option: Voyager
Option: Tenacity
Option: Supernova
3. How much cargo will the Dream Chaser space plane carry to the ISS?
Option: 5,200 pounds
Option: 7,800 pounds
Option: 10,000 pounds
Option: 12,500 pounds
4. Where will the Dream Chaser space plane land upon returning to Earth?
Option: Kennedy Space Center
Option: Houston Space Center
Option: Cape Canaveral
Option: Edwards Air Force Base
5. What is the ultimate destination of the Dream Chaser space plane before its liftoff?
Option: International Space Station
Option: Mars
Option: The Moon
Option: Jupiter
6. Who expressed the need to enhance spacecraft testing and launch services at Kennedy Space Center?
Option: Kevin Brown
Option: Elon Musk
Option: Mark Zuckerberg
Option: Jeff Bezos

Answer

Multiple Choice: 1. All Points Logistics 2. Tenacity 3. 7,800 pounds 4. Cape Canaveral 5. International Space Station 6. Kevin Brown



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What is the term for the release of gases into the atmosphere?
Option: A) Greenhouse
Option: B) Sustainable
Option: C) Emissions
Option: D) Anesthesia
2. What describes the state of requiring immediate action or attention?
Option: A) Regulation
Option: B) Authority
Option: C) Urgency
Option: D) Recovery
3. What term refers to the act of conforming to a rule command or request?
Option: A) Turnaround
Option: B) Compliance
Option: C) Integration
Option: D) Demand
4. What describes the state of being responsible for something or someone?
Option: A) Misinformation
Option: B) Accountable
Option: C) Infrastructure
Option: D) Concerns
5. What are the consequences or fines for not adhering to laws or regulations?
Option: A) Regulating
Option: B) Imposed
Option: C) Penalties
Option: D) Facility
6. What term refers to the general weather conditions of a region over a long period?
Option: A) Regulation
Option: B) Climate
Option: C) Compliance
Option: D) Turnaround
7. What is the process of controlling or maintaining the proper functioning of something?



- Option: A) Facility
- Option: B) Regulating
- Option: C) Infractions
- Option: D) Turnaround

8. What refers to the basic physical and organizational structures and facilities needed for the operation of a society or enterprise?

- Option: A) Turnaround
- Option: B) Recovery
- Option: C) Infrastructure
- Option: D) Authority

9. What term describes a process of completely changing a situation so that it improves?

- Option: A) Demand
- Option: B) Compliance
- Option: C) Turnaround
- Option: D) Enhance

10. Which neurotransmitter is often associated with regulating mood and behavior?

- Option: A) Anxiety
- Option: B) Serotonin
- Option: C) Recovery
- Option: D) Demand

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The _____ for eco-friendly products is increasing due to growing environmental awareness.
12. Penalties may be _____ on companies that do not comply with emission regulations.
13. To stay competitive businesses need to constantly _____ their products and services.
14. Government _____ are necessary to ensure fair competition in markets.
15. The new manufacturing _____ is equipped with the latest technology.
16. Many people experience feelings of _____ when faced with uncertain situations.
17. It is important to fact-check information to prevent the spread of _____.



18. Political _____ can have significant economic implications for a country.
19. Environmental _____ are driving the push for more sustainable practices.
20. Investments in _____ development are crucial for economic growth.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Creating a environment involves using resources wisely to meet current needs without compromising the future.
22. Digital offer convenient ways to connect users and providers of goods and services.
23. The local government has the to enforce zoning regulations in the city.
24. After the accident the survivor felt confused and .
25. Listening to soothing music can have a effect on one's nerves.
26. The patient is showing signs of steady after the surgery.
27. Effective of the financial industry is crucial to maintaining stability in the economy.
28. Setting clear helps organizations focus their efforts toward achieving specific goals.
29. The of various departments within the company improved overall efficiency.
30. Repeated traffic may result in a suspension of the driver's license.

Answer

Multiple Choice: 1. C) Emissions 2. C) Urgency 3. B) Compliance 4. B) Accountable 5. C) Penalties 6. B) Climate 7. B) Regulating 8. C) Infrastructure 9. C) Turnaround 10. B) Serotonin

Gap-Fill: 11. demand 12. imposed 13. enhance 14. regulations 15. facility 16. anxiety 17. misinformation 18. unrest 19. concerns 20. infrastructure

Matching sentence: 1. Sustainable 2. Platforms 3. Authority 4. Disoriented 5. Calming 6. Recovery 7. Regulation 8. Targets 9. Integration 10. Infractions

CATEGORY

1. Sci/Tech - LEVEL3

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