



SpaceX Crew-10 Astronauts Head to Launch Pad for Liftoff

Description

NASA's SpaceX Crew-10 mission, initially slated for launch on March 12, 2025, encountered an unforeseen delay due to a technical anomaly with the launch pad's hydraulic system. This mission is pivotal, not only for ferrying a new cohort of astronauts to the International Space Station (ISS) but also for facilitating the return of two NASA astronauts who have been in orbit for an extended period.

Crew Composition and Mission Objectives

The Crew-10 ensemble comprises:

- **Commander:** Anne McClain (NASA)
- **Pilot:** Nichole Ayers (NASA)
- **Mission Specialist 1:** Takuya Onishi (JAXA)
- **Mission Specialist 2:** Kirill Peskov (Roscosmos)

This mission signifies the tenth operational crewed flight under NASA's Commercial Crew Program, utilizing SpaceX's Crew Dragon spacecraft. The primary objective is to transport these astronauts to the ISS for a six-month tenure, during which they will engage in a spectrum of scientific experiments and technological demonstrations.

Launch Delay: Technical Glitch

The scheduled launch was aborted mere hours before liftoff due to a malfunction within the hydraulic system responsible for operating the clamp arm that stabilizes the Falcon 9 rocket on the pad. Despite rigorous troubleshooting, engineers were unable to rectify the issue promptly, necessitating a postponement. The launch has been rescheduled for no earlier than March 14, 2025, at 7:03 p.m. EDT (2303 GMT).

Implications for Astronauts Wilmore and Williams

Astronauts Butch Wilmore and Suni Williams have been aboard the ISS since June 2024, far exceeding their initial mission duration. Their prolonged stay resulted from complications with Boeing's Starliner capsule, which was initially designated for their return journey but encountered technical setbacks. Consequently, NASA opted to utilize SpaceX's Crew Dragon for their repatriation.

The arrival of Crew-10 is imperative for the seamless transition of responsibilities and the safe return of Wilmore and Williams. The delay underscores the inherent complexities and unpredictabilities associated with crewed spaceflight operations.

Continued Commitment to the Commercial Crew Program



NASA's Commercial Crew Program, in collaboration with private aerospace entities like SpaceX, aims to ensure reliable and safe access to low Earth orbit. While delays are not uncommon in space missions, they highlight the rigorous safety protocols and the dynamic nature of space exploration.?

As the new launch date approaches, the global community remains poised, anticipating the successful deployment of Crew-10 and the subsequent return of the long-duration ISS residents.

Vocabulary List:

1. **anomaly** /ə'nom.ə.li/ (noun): Something that deviates from what is standard normal or expected.
2. **operational** /,ɒp.ər'eɪ.jən.əl/ (adjective): Related to the functioning or operation of a system.
3. **technological** /,tek.nə'lɒdʒ.ɪ.kəl/ (adjective): Relating to technology and its application.
4. **facilitating** /fə'sɪl.ɪteɪɪŋ/ (verb): Making an action or process easier or more achievable.
5. **implications** /,ɪmplɪ'keɪʃənz/ (noun): The possible effects or results of an action or a decision.
6. **postponement** /pəʊst'pəʊn.mənt/ (noun): The act of delaying an event or action to a later time.

Comprehension Questions

Multiple Choice

1. When was the NASA's SpaceX Crew-10 mission initially slated for launch?
Option: March 10 2025
Option: March 11 2025
Option: March 12 2025
Option: March 13 2025
2. Who is the Commander of the Crew-10 mission?
Option: Anne McClain
Option: Nichole Ayers
Option: Takuya Onishi
Option: Kirill Peskov
3. Which space agency does Mission Specialist 1 Takuya Onishi belong to?
Option: NASA
Option: JAXA



Option: Roscosmos

Option: ESA

4. What is the primary objective of the Crew-10 mission?

Option: Return to Earth

Option: Deploy Satellites

Option: Conduct Scientific Experiments on ISS

Option: Explore Mars

5. What caused the delay in the Crew-10 mission?

Option: Weather Conditions

Option: Technical Anomaly with Hydraulic System

Option: Crew Illness

Option: Fuel Shortage

6. Which aerospace entity collaborated with NASA for the Commercial Crew Program?

Option: Boeing

Option: SpaceX

Option: Lockheed Martin

Option: Blue Origin

True-False

7. The launch of Crew-10 was delayed due to a technical glitch in the hydraulic system.

8. Astronauts Butch Wilmore and Suni Williams have been on the ISS since 2019.

9. The Crew-10 mission is the twelfth crewed flight under NASA's Commercial Crew Program.

10. Boeing's Starliner capsule encountered technical setbacks for the Crew-10 mission.

11. The delay in the Crew-10 mission does not impact the safe return of astronauts on the ISS.

12. SpaceX's Crew Dragon spacecraft will be utilized for the repatriation of Wilmore and Williams.

Gap-Fill

14. Astronauts _____ and Suni Williams have been aboard the ISS since June 2024 far

exceeding their initial mission duration. Their prolonged stay resulted from complications with Boeing's

~~Starliner capsule which was initially designated for their return journey but encountered technical setbacks.~~



Consequently NASA opted to utilize SpaceX's Crew Dragon for their repatriation.

15. The global community remains poised anticipating the successful deployment of Crew-10 and the subsequent return of the long-duration ISS residents as the _____ approaches.

16. Astronauts Butch Wilmore and Suni Williams have been aboard the ISS since June 2024 far exceeding their initial mission duration. Their prolonged stay resulted from complications with Boeing's Starliner capsule which was initially designated for their return journey but encountered technical setbacks.

Consequently NASA opted to utilize SpaceX's Crew Dragon for their _____.

17. NASA's Commercial Crew Program in collaboration with private aerospace entities like SpaceX aims to ensure reliable and safe access to low Earth orbit. While delays are not uncommon in space missions they highlight the rigorous safety protocols and the dynamic nature of space _____.

18. The Crew-10 ensemble consists of Commander Anne McClain (NASA) Pilot Nichole Ayers (NASA) Mission Specialist 1 Takuya Onishi (JAXA) and _____ Mission Specialist 2 Kirill Peskov (Roscosmos).

Answer

Multiple Choice: 1. March 12 2025 2. Anne McClain 3. JAXA 4. Conduct Scientific Experiments on ISS 5. Technical Anomaly with Hydraulic System 6. SpaceX

True-False: 7. True 8. False 9. False 10. True 11. False 12. True

Gap-Fill: 14. Butch Wilmore 15. new launch date 16. repatriation 17. exploration 18. Roscosmos

Vocabulary quizzes

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

1. Which word best describes strong emotion or passion?

Option: Intertwining



- Option: Vehement
- Option: Equitable
- Option: Charisma

2. What term is used to describe excessive self-love and self-centeredness?

- Option: Allegations
- Option: Narcissism
- Option: Disbelief
- Option: Collaborations

3. What word is synonymous with a violation or infraction of a law obligation or standard?

- Option: Anomaly
- Option: Breach
- Option: Maneuver
- Option: Implications

4. Which word describes exceeding what is reasonable or appropriate usually in terms of spending?

- Option: Operational
- Option: Facilitating
- Option: Extravagant
- Option: Technological

5. What term refers to a feeling of fear or agitation about something that may happen?

- Option: Defrauded
- Option: Trepidation
- Option: Apprehended
- Option: Disbelief

6. Which word means a lack of belief or acceptance in something?

- Option: Disbelief
- Option: Condemn
- Option: Self-serving
- Option: Estranged

7. Which term relates to the use of scientific knowledge in industry and engineering?

- Option: Postponement
- Option: Facilitating
- Option: Operational
- Option: Technological

8. What word refers to the expectation of justification for actions or decisions?

- Option: Accountability
- Option: Self-serving



Option: Monopolized

Option: Facilitating

9. What term refers to the likely consequences of an action or decision?

Option: Estranged

Option: Implications

Option: Speculation

Option: Charisma

10. What term describes working together to achieve a common goal?

Option: Collaborations

Option: Allegations

Option: Facilitating

Option: Extravagant

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

11. The espionage movie was full of _____ and suspense.

12. The company faced serious _____ of corruption by former employees.

13. The new factory is not yet _____ ; it is scheduled to start production next month.

14. The judge ensured that the distribution of assets was fair and _____ among the heirs.

15. The project manager is responsible for _____ communication between the different teams.

16. The international community came together to _____ the use of chemical weapons in the conflict.

17. His speech was well-rehearsed and delivered in a _____ and professional manner.

18. There is much _____ about the real reasons behind the sudden resignation of the CEO.



19. The company _____ the market by buying out all its competitors.
20. The scientist could not explain the strange _____ in the experimental results.

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

21. The politician was known for making decisions that were only beneficial to himself showing his nature.
22. The concert was disappointing for the fans who had been looking forward to the event for months.
23. After the argument they became and stopped speaking to each other.
24. The scam artist many elderly people out of their life savings with promises of high returns.
25. The chess player executed a brilliant that led to checkmate in just a few moves.
26. The leader's and charm captivated the audience and inspired them to follow his vision.
27. Successful businesses often rely on strong with other companies to expand their reach.
28. The training workshop focused on better communication skills among team members.
29. The discovery of the new drug has significant for the treatment of the disease.
30. With a sense of she approached the stage to give her first public speech.

Answer

Multiple Choice: 1. Vehement 2. Narcissism 3. Breach 4. Extravagant 5. Trepidation 6. Disbelief
7. Technological 8. Accountability 9. Implications 10. Collaborations

Gap-Fill: 11. intrigue 12. allegations 13. operational 14. equitable 15. facilitating 16. condemn 17. polished
18. speculation 19. monopolized 20. anomaly

Matching sentence: 1. self-serving 2. postponement 3. estranged 4. defrauded 5. maneuver 6. charisma
7. collaborations 8. facilitating 9. implications 10. trepidation

CATEGORY

1. Entertainment - LEVEL6

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