

3 The photograph shows a worker fuelling an aircraft.



Fuelling an electrically-charged aircraft can be dangerous.

The worker connects a safety wire to the aircraft before adding the fuel.

(a) Explain how an aircraft can become electrically charged while it is flying.

(2)

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(b) Describe a possible danger of fuelling an electrically-charged aircraft.

(1)

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(c) What electrical connection is made by the safety wire?

(1)

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(d) Explain how connecting the safety wire reduces the possible dangers when fuelling an electrically-charged aircraft.

(2)

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(Total for Question 3 = 6 marks)

