# Assessment Questions for World of Lasers

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| Question #: 1 |  |
| Text of question: | 1. Choose the **correct** alternative about drones. |
| Potential Answer A | Text of Answer | Drones are more formally known as manned aerial vehicles. |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. Drones are unmanned aerial vehicles. |
| Potential Answer B | Text of Answer | Essentially, a drone is an aircraft controlled by human within the vehicle. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. Drones are not controlled by a human pilot inside them |
| **Potential Answer C** | **Text of Answer** | **Essentially, a drone is a flying robot and controlled remotely.** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer D | Text of Answer | Drones are also called UAV and they do not make use of software to control them. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. Drones always make use of controller software. |

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| Question #: 2 |  |
| Text of question: | 2. Which device is used for rotating a drone? |
| Potential Answer A | Text of Answer | Roll |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. |
| **Potential Answer B** | **Text of Answer** | **Yaw** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer C | Text of Answer | Pitch |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. |
| Potential Answer D | Text of Answer | Throttle |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. |

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| Question #: 3 |  |
| Text of question: | 3. About the drone control *pitch*, choose the **correct** alternative. |
| Potential Answer A | Text of Answer | This control moves thedrone to left or right. |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. These movement are done by roll. |
| Potential Answer B | Text of Answer | Pitch allows the drone move to up and down vertically. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.These movement are done by throttle. |
| **Potential Answer C** | **Text of Answer** | **This control moves the drone either forward and backward.** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer D | Text of Answer | It rotates the drone clockwise or counterclockwise. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.These movement are done by yaw. |

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| Question #: 4 |  |
| Text of question: | 4. What are the main two components that are essential to any drone can fly? Without these components a drone cannot fly. |
| **Potential Answer A** | **Text of Answer** | **Motor and propeller.** |
| **Is Correct (Yes/No)** | **Yes** |
| **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer B | Text of Answer | Propeller and GPS. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. |
| Potential Answer C | Text of Answer | Motor and camera. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.  |
| Potential Answer D | Text of Answer | Motor and sensors. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. |

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| Question #: 5 |  |
| Text of question: | 5. What is the ESC (Electronica Speed Controller) function? |
| **Potential Answer A** | **Text of Answer** | **Controlling the motor RPM** |
| **Is Correct (Yes/No)** | **Yes** |
| **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer B | Text of Answer | Capturing distance measurement |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. This is done by sensors. |
| Potential Answer C | Text of Answer | Detecting targets. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. This is done by an intelligent camera. |
| Potential Answer D | Text of Answer | Supporting digital camera on the body. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. |

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| Question #: 6 |  |
| Text of question: | 6. About the Flight Controller Board (FCB), choose the **incorrect** alternative. |
| Potential Answer A | Text of Answer | FCB is also called Autopilot |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. This statement is true. |
| Potential Answer B | Text of Answer | It is one of the lower-layer system in drones. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.This statement is true. |
| **Potential Answer C** | **Text of Answer** | **FCB involves a unique level of priority.** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer D | Text of Answer | FCB allows UAV to be programmed to perform different movements. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.This statement is true. |

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| Question #: 7 |  |
| Text of question: | 7. Which alternative is a characteristic of the open loop in UAV architecture. |
| Potential Answer A | Text of Answer | It provides a positive control signal through sensor data. |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. It provides a positive control without using sensor feedback. |
| Potential Answer B | Text of Answer | It incorporates sensor feedback to adjust behavior. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. This is a property of the closed loop. |
| **Potential Answer C** | **Text of Answer** | **It provides controls such as left and right without using sensor data.** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer D | Text of Answer | Open loop process always make use of GPS to make movements in the air. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong. Since open loop does not use sensor data. |

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| Question #: 8 |  |
| Text of question: | 8. About the drone applications, which alternative is FALSE. |
| Potential Answer A | Text of Answer | Drones can be used for treating pest in agriculture. |
| Is Correct (Yes/No) | No |
| Feedback Message | Wrong. This statement is true. |
| Potential Answer B | Text of Answer | Usually drones are used for monitoring road traffic. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.This statement is true. |
| **Potential Answer C** | **Text of Answer** | **Drones have been used for many years to delivery products of online purchases around the world.** |
|  | **Is Correct (Yes/No)** | **Yes** |
|  | **Feedback Message** | **That’s the correct answer! Well done!** |
| Potential Answer D | Text of Answer | Drones are used for professional filming. |
|  | Is Correct (Yes/No) | No |
|  | Feedback Message | Wrong.This statement is true. |