**Tesla Factory**

**Robotics, facility layout, standards, inspection**

Description: This video takes a look at how the body of Tesla Model S vehicles is constructed in an assembly plant. At this stage the motor is not installed, but the car is constructed and painted. The video describes how the factory takes raw materials and uses technology such as lasers and robotics to construct the car’s body. For instance, there are five overall joining methods for the body’s center. After the body is constructed, it is painted. Smart car robots convey the car’s body throughout the factory to its different stations.

*Use with:* <https://www.youtube.com/watch?v=8_lfxPI5ObM>

1. How does the Tesla factory use robotics?
2. What is the type of facility layout used for the factory?
3. What types of standards is Tesla likely to use?
4. How long does the process take for the car to go from raw materials to finished product?
5. How do you think Tesla handles inspection? Does it inspect 100 percent of all products? Why or why not?
6. Does the Tesla facility outsource some of its activities or processes?