

✔ Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1. Which of the following are components of **longitudinal control**? (Select all that apply)

1 / 1 point

✔ Braking

✔ Correct

Correct, braking is a component of longitudinal control.

✔ Accelerating

✔ Correct

Correct, accelerating is a component of longitudinal control.

□ Planning

□ Steering

2. Which of the following is **not** an example of OEDR?

1 / 1 point

□ Pulling over upon hearing sirens

□ Stopping at a red light

● Finding a route from your current location to a goal location

□ Slowing down when seeing a construction zone ahead

✔ Correct

Correct, finding routes between locations is a long term planning problem and not OEDR.

3. Which of the following tasks would you expect a **Level 2 system** to perform? (Select all that apply)

1 / 1 point

✔ Stay within a lane

✔ Correct

Correct, maintaining speed is part of lateral control for the level 2 system.

□ Swerve and slow down to avoid a pedestrian

✔ Change lanes

✔ Correct

Correct, changing lanes is part of lateral control for the level 2 system.

✔ Maintain constant speed

✔ Correct

Correct, maintaining speed is part of longitudinal control for the level 2 system.

4. What is the **distinction** between Level 3 autonomy and Level 4 autonomy?

1 / 1 point

□ Level 3 systems cannot perform OEDR, Level 4 systems can

● Level 3 systems require full user alertness, Level 4 systems do not

□ Level 3 systems only have lateral or longitudinal control, Level 4 systems have both

□ Level 3 systems cannot drive on highways, Level 4 systems can

✔ Correct

Correct, level 3 systems cannot handle emergencies automatically and as a result require full user alertness.

5. What distinguishes Level 5 Autonomy from Level 4?

1 / 1 point

● Level 4 has a restricted operational design domain, whereas Level 5 is unrestricted.

□ Level 5 has OEDR capability, while Level 4 does not.

□ Level 5 autonomy can operate on any weather condition, while Level 4 cannot.

□ Level 5 autonomy can operate on any road surface and road type, while Level 4 cannot.

✔ Correct

Correct, level 5 systems can operate in any weather condition, on any road type or surface and in any scenario and remain safe.