GRADE 100%

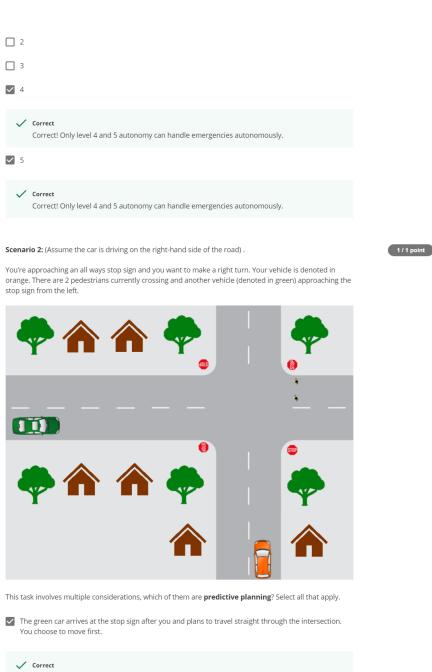
TO PASS 80% or higher

Module 1: Graded Quiz

LATEST SUBMISSION GRADE

100% 1. Scenario 1: You're at home and need to drive to work 1 / 1 point During the trip, you will be performing OEDR tasks. Of the tasks below, which of the following is ${f not}$ an example of OEDR? O Stopping at a red light O Pulling over upon hearing sirens Maintaining a distance to a vehicle ahead O Slowing down when seeing a construction zone ahead ✓ Correct Correct! Maintaining distance is not a detection and reaction procedure, it is a normal driving 2. Which of the following tasks are associated with **perception**? Estimating the motion of other vehicles ✓ Correct Correct! Estimating the motion of other vehicles is associated with perception ☐ Planning routes on a map Responding to traffic lights Identifying road signs ✓ Correct Correct! Identifying road signs are associated with perception Before leaving, you decide to check the weather. The forecast states that over the next few days there will 1 / 1 point be both sun and rain along with some fog. Assuming your vehicle exhibits Level 5 autonomy, which of the following weather conditions can your vehicle operate? O Clear and sunny O Windy heavy rainfall O Heavy Fog O Light rainfall All of the above ✓ Correct Correct! Level 5 autonomy can operate in any weather condition.

You enter your autonomous vehicle and it drives your usual route to work. While the vehicle is driving, you decide to take a nap. For which levels of autonomy is this safe? (Select all that apply)





Wait for the pedestrians to finish crossing before turning

Correct! Predictive planning deals with planning based on predictions of the actions of others.

6. Here are some rules for driving at a stop sign. Which of the following is an appropriate **priority ranking**?

1) For non all-way stop signs, stop at a point where you can see oncoming traffic without blocking the intersection

2) If there are pedestrians crossing, stop until they have crossed $% \left\{ 1\right\} =\left\{ 1\right\}$

3) If you reach a stop sign before another vehicle, you should move first if safe $\,$

0 1, 2, 3

✓ Correct

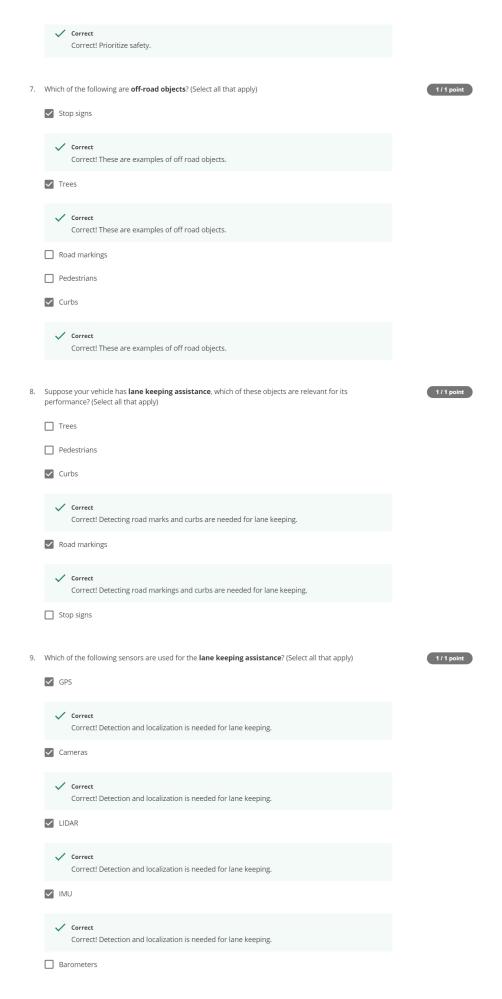
3, 2, 1

2, 1, 3

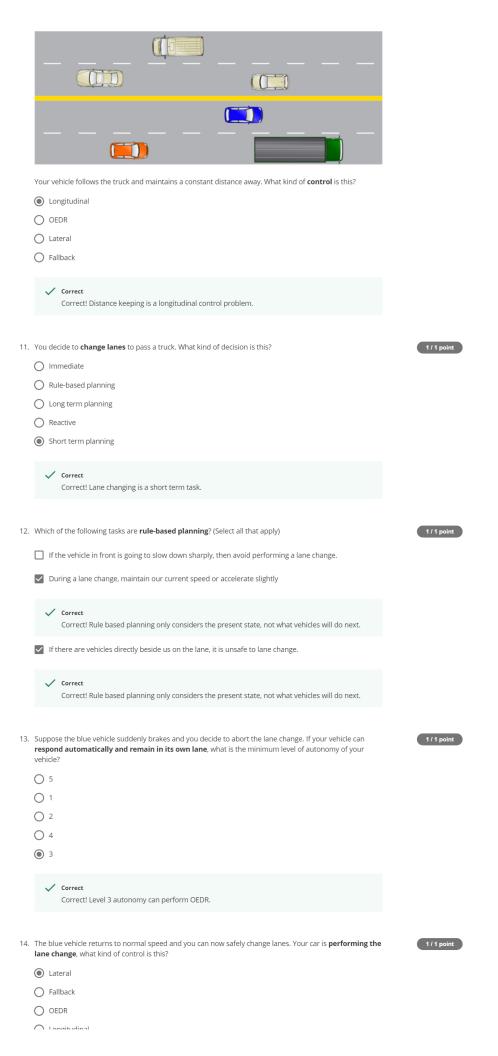
0 3, 1, 2

0 1, 3, 2

1/1 point



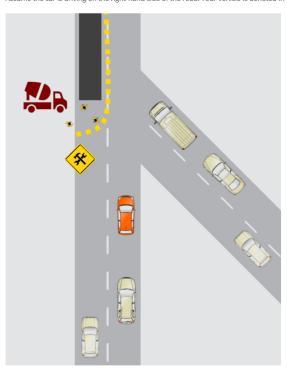
^{10.} **Scenario 3:** You are on the highway and you see a truck in front of you. Assume the car is driving on the right-hand side of the road. There is also a blue car beside the truck in the other lane.



15. Scenario 4: You are almost at work but encounter a construction site.

Correct! Lane changing is a lateral control problem.

Assume the car is driving on the right-hand side of the road. Your vehicle is denoted in orange.



You see a construction site where the workers are repaving a road full of potholes. They are using jackhammers which can cause dust clouds.

You create the following decision tree for getting through the construction site. From the diagram, which of the following decisions should you make? (green is true, red is false)



- A (True)
- ✓ B (False)
- ✓ Correct
- C (True)
- ✓ Correct
 Correct!
- D (False)
- E (True)
- ✓ Correct
 Correct!
- F (False)
- 16. Here are a set of rules for making these decisions, **arrange them in an appropriate prioritization**.



1 / 1 point

- 2) Drive slowly in construction zones 3) If there are pedestrians or workers directly ahead in the current lane, stop 4) Yield to merging vehicles, if necessary 0 1, 2, 3, 4 0 2, 3, 4, 1 3, 4, 1, 2 3, 4, 2, 1 ✓ Correct Correct! Prioritize safety in each case, yielding to pedestrians and then vehicles first, before defining acceptable travel speed. 17. Scenario 5: You're finished work and need to drive back home, but it's nighttime.



You plan a new path home on your GPS application to avoid the construction site, what type of planning is this?

- O Reactive
- O Rule based planning
- O Immediate
- O Short term planning
- Long term planning



Correct! Setting a path before driving is long term planning.

 $18. \ \ Your \ new \ path \ goes \ through \ a \ school \ zone \ and \ you \ see \ the \ school \ zone \ sign. \ You \ decide \ to \ slow \ down$ despite there being no pedestrians or children (it's nighttime). What sort of ${\bf planning}$ is this?



1 / 1 point



- O Reactive planning
- O Long term planning
- O Immediate planning
- O Short term planning
- Rule based planning

✓ Correct

Correct! The rule to slow down in school zones is being followed.