Unit 1

| Lesson Plan | | | |
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| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |

| Date: | 10/04/24 | | |
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| Aim:  *(Overall goal?)* | Complete all Learning Outcomes required for Unit 1:   1. LO1 Drive an electric vehicle safely. 2. LO2 Prepare and drive an electric vehicle safely to a high standard. 3. LO3 Prepare and drive an autonomous vehicle in data collection. | | |
| Objective:  *(Steps taken to reach that goal?)* | 1. Undergo a high standard driving test to show your professionalism and ability to drive to the standards required here at Wayve 2. Be shown how to conduct a BUI of a vehicle and ensure its roadworthiness before heading out onto the road. 3. You will use your understanding of the systems to set up, and safely conduct a DC run to our closed road test site. | | |
| Session:  *(What are you planning to do? What resources did you use?)* | Today you will be working towards successful completion of LO3.  You will learn how to correctly set up the vehicle in Data Collection mode and plot a route to the test site.  You will follow the sat nav correctly and ensure a high standard of driving is maintained throughout your time on the road | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* | During Kamran’s Unit 1 drive back from Millbrook today, he exhibited great observations, structured forward planning, with a great mindset for safety and the highway code. He maintained a great hand position on the steering wheel at all times throughout the drive, ensuring he was in control of the vehicle at all times.  Kamran gave great commentary whilst driving and went into detail of what was happening on the road and how he planned to deal with the situation. This will prove useful when watching back the videos and assessing situations.  Well done Kamran, continue to maintain these high standards.  We discussed a couple of learning points throughout his drive to focus on moving forward:   * When stationary, ensure you hold the vehicle with the brake pedal and not on the biting point of the accelerator pedal. * Maintain a good distance from the vehicle in front, ensuring we can see the tyres touching the tarmac. | | |
| Learner Self-Reflection: |  | | |

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| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |

| Date: |  | | |
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| Aim:  *(Overall goal?)* | Complete all Learning Outcomes required for Unit 2: 1. LO1 Prepare an autonomous vehicle for safe operation in a Closed Road Testing 2. LO2 Operate an autonomous vehicle in a Closed Road Testing environment | | |
| Objective:  *(Steps taken to reach that goal?)* | - Attend a Closed Road Testing (CRT) site and conduct Autonomous driving - Work through the required steps needed to setup a Autonomous Feature Test (AFT) test on the UI - Learn and put into practise the methods of intervening with the system - Safely carry out an AFT | | |
| Session:  *(What are you planning to do? What resources did you use?)* | Today you will attend the test site and we will show you how to set up an AFT through the steps required on the UI.  We will show you the areas we use on the site to ensure your understanding of the different areas.  We will have discussions around Interventions with the systems and carry out a couple of tes circuits s to make sure you are comfortable operating the system, that you feel in control to intervene with the system if necessary and we will start to build up your confidence | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* | Initially starting training today Kamran showed great all round observations when engaging AV. We encountered a large amount of ‘Accidentals’ initially but he soon built up a good understanding of the feel of the syThis stem and through the day, these became much less.  Kamran gave great all round checks before going into AV, and when in AV, he intervened in a well timed manner. Following the interventions, we had a discussion about the importance of maintaining our speed on the road, as to not pose a hazard to other vehicles. This was greatly improved as testing continued and moving into open-road testing, it will be good to see Kamran continue to work on maintaining the vehicles progress following an intervention.  We had a discussion around not feeling like Kamran needs to rush everything, to slow things down, take his time and smoothen out engaging autonomy. It will be great to see Kamran continues to work on slowing down his checks and not rushing through and missing any hazards/engaging into accidentals.  Overall Kamran showed a good ability to safely engage and intervene with the system with no concerns for safety going into open-road testing. Well done Kamran  Learning points discussed:   * Continue to make progress following an intervention * Slow down your checks and don’t rush back into AV following an intervention * Continue with the observations you're currently giving and always be aware of your surroundings. | | |
| Learner Self-Reflection: |  | | |

[[1]](#footnote-0)

Unit 3.1

| Lesson Plan | | | |
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| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |

| Date: | 11/04/2024 | | |
| --- | --- | --- | --- |
| Aim:  *(Overall goal?)* | Complete all Learning Outcomes required for Unit 3: 1. LO1 Prepare an autonomous vehicle for safe operation in a Open Road Testing 2. LO2 Operate an autonomous vehicle in a Open Road Testing environment | | |
| Objective:  *(Steps taken to reach that goal?)* | - Head to Somers Town to learn about on road testing. - You will be shown how to correctly setup an AFT for an Open Road Test, using the UI. - You will have the opportunity to demonstrate your ability to safely conduct testing. | | |
| Session:  *(What are you planning to do? What resources did you use?)* | During this session you will head out to Sommers Town and following successful competence at these test sites, you will conduct a Cali V2 test route. These environments will help you to further develop your skills as an AVSO. You will be shown how to set up an AFT, how to manually plot a route/load one from the UI pre planned maps and carry out a AFT of this route. | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* | Today Kamran continued to further build upon his AV skills moving to open road testing. At the start of the day we went to Somers town, where he demonstrated great observations and blindspot checks throughout his testing.  There were quite a few accidental interventions where Kamran still had his foot on the pedal, however he was working hard on trying to improve on it.  On one occasion, Kamran intervened using the foot pedal, however he had not taken immediate control of the steering wheel simultaneously. We spoke about the importance of making sure all interventions are carried out safely, which includes holding the steering wheel while intervening with the foot pedal.  Following the interventions, we had a discussion about the importance of maintaining our speed on the road, to not pose a hazard to other vehicles.  After Somers Town we headed to do a ‘free-plot’ short route on the Cali Road where Karan continued to carry out great observations and blindspot checks. He carried out a few good interventions, however there was another intervention where Kamran did not immediately grab the steering wheel until I reminded him to do so. He was very disappointed with himself and said he understands the importance of it and will make sure he remembers to grab the wheel from now on.  Learning points as discussed:   * Continue to make progress on the road following an intervention      * Work on simultaneously placing your hands on the steering wheel whilst using the foot pedals for interventions | | |
| Learner Self-Reflection: |  | | |

Unit 3.2

| Lesson Plan | | | |
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| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |

| Date: |  | | |
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| Aim:  *(Overall goal?)* | 1. Conduct testing on Alpha Routes and Crouch End 2. Improve to the Driving standards required, ready for Unit 3 Assessment | | |
| Objective:  *(Steps taken to reach that goal?)* | - Have a discussion about the Driving standards required here at Wayve - Successfully demonstrate the required driving standards during AV testing.  - Expand routes to Alpha 1, 2 and Crouch End | | |
| Session:  *(What are you planning to do? What resources did you use?)* | During this session, Learners will head out and start conducting testing on Alpha, 1, 2 and Crouch end testing routes.  This session will continue with the development of your AVSO skills, changing to a more complex environment and maintaining Autonomous Driving for longer distances. | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* |  | | |
| Learner Self-Reflection: |  | | |

Unit 3.3

| Lesson Plan | | | |
| --- | --- | --- | --- |
| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |

| Date: |  | | |
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| Aim:  *(Overall goal?)* | 1. Conduct testing on Finsbury Park and Upper Holloway routes 2. Increase testing speeds up to 30 and 40mph 3. Improve to the Driving standards required, ready for Unit 3 Assessment | | |
| Objective:  *(Steps taken to reach that goal?)* | - Successfully demonstrate the required driving standards during AV testing.  - Expand routes to Finsbury Park and Upper Holloway - Explore routes which use 30 and 40mph speed limits | | |
| Session:  *(What are you planning to do? What resources did you use?)* | During this session, Learners will head out and start conducting testing on Finsbury Park and Upper Holloway testing routes.  This session will continue with the development of your AVSO skills, changing to a more complex environment and maintaining Autonomous Driving for longer distances. | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* |  | | |
| Learner Self-Reflection: |  | | |

Unit 3.4

| Lesson Plan | | | |
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| Name: | [Kamran Khan](mailto:kamran.khan@wayve.ai) | | |
| Job Title: | Autonomous Vehicle Safety Operator (AVSO) | | |
| Date: |  | | |
| Aim:  *(Overall goal?)* | 1. Conduct testing on a Euston Route  2. Further show your ability to operate the Autonomous vehicle systems by conducting ‘Solo testing’ on our ALR routes. | | |
| Objective:  *(Steps taken to reach that goal?)* | - Expand routes to Euston Road  - Showcase your ability to successfully carry out testing of an autonomous vehicle when driving ‘solo’ | | |
| Session:  *(What are you planning to do? What resources did you use?)* | You will continue to develop your knowledge of more routes by conducting testing on the level 4 Euston route.  All being well that the learner has shown a successful ability to control the AV system to the required standard, they will now be able to head out and conduct ‘Solo On-road testing’. This will be a mixture of routes covered during their training, Alpha routes up to ALR’s. | | |
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| Trainer  Feedback:  *(What Went Well & Areas Of Improvement)* |  | | |
| Learner Self-Reflection: |  | | |

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1. New Starter Training 02/08/23 [↑](#footnote-ref-0)