| **Lesson Plan** | | | |
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| **Name:** | Joe Fairclough | | |
| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |

| **Date:** | 13/03/2024 | | |
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| **Aim:**  *(Overall goal?)* | Complete all Learning Outcomes required for **Unit 1**:   * LO1 Drive an electric vehicle safely. * LO2 Prepare and drive an electric vehicle safely to a high standard. * LO3 Prepare and drive an autonomous vehicle in data collection. | | |
| **Objective:**  *(Steps taken to reach that goal?)* | - Undergo a high standard driving test to show your professionalism and ability to drive to the standards required here at Wayve  - Be shown how to conduct a BUI of a vehicle and ensure its roadworthiness before heading out onto the road.  - 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)* | Joe completed his high standard drive in data collection today travelling down from Millbrook, Joe showed good control of the vehicle this was evident with correct hand position on the steering wheel and good use of his mirrors regularly when driving, this was even more evident when changing lanes. Joe showed competence in working with and setting up the UI correctly. When completing the gamepad chek Joe at times forgot to engage Drive and this was an area that improved throughout the day, it was agreed with Joe that with continuous practices of gamepad that this will improve. | | |
| **Learner Self-Reflection:** | I felt I completed a high standard drive returning from Millbrook, to the best of my ability and considering this was my first time driving this vehicle on an open road environment and my first time driving an EV, I am happy with how I did and Will was an excellent trainer/passenger in this journey.  I agree that remembering the sometimes small but vitally important parts of safely engaging Drive, is a priority. I can put it down to being fresh to the process and I am confident I will form very good habits through repetition so that I shall not forget in the future. | | |

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| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |

| **Date:** | 13/03/2024 | | |
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| **Aim:**  *(Overall goal?)* | Complete all Learning Outcomes required for **Unit 2**: - LO1 Prepare an autonomous vehicle for safe operation in a Closed Road Testing - 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 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)* | Joe started by completing his gamepad check, Joe was able to use his knowledge from working with AVSOs and resources that have been shared to complete a competent gamepad check. At the start Joe had some difficulty in engaging Drive before pressing the AV button with some practice Joe can now complete the Gamepad correctly and most importantly safely. Joe then went on to practise engaging and disengaging AV on the outer handling circuit, on the first few tries Joe found difficulty in realising the accelerator pedal and pressing the AV button in a simultaneous manner, however with couple of tries Joe was successful in the process of engaging AV, his shoulder/blind spot checks were evident and these were completed in a safe and controlled manner. In the afternoon Joe moved into the Inner City Circuit where he successfully completed interventions in the correct manner using the different types of intervention tools including steering, braking, accelerator and AV button. Joe was set an objective today to carry over his skills he has learnt and use them on his upcoming unit 3 open road testing. Well done Joe, keep up the good work! | | |
| **Learner Self-Reflection:** | Similarly to my previous comment, I agree I must make every effort to remember and form good habits regarding using the UI and remembering each step of the processes such as the Gamepad check, in this instance engaging Drive and AV when checking the steering wheel, accelerator and brakes and the intervention checks.  I found the Closed road training at Millbrook invaluable to be the quickest, safest and most confidence building way to begin to learn how to operate an AV. I particularly enjoyed the quick fire parts on the Inner handling track where Will gave instructions in a very quick manner for me to engage AV, intervene in particular ways and driving directions. It was fun and engaging as well as a good challenge. | | |

[[1]](#footnote-0)

| **Lesson Plan** | | | |
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| **Name:** | Joe Fairclough | | |
| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |

| **Date:** | 14/03/24 | | |
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| **Aim:**  *(Overall goal?)* | Complete all Learning Outcomes required for **Unit 3**: - LO1 Prepare an autonomous vehicle for safe operation in a Open Road Testing - LO2 Operate an autonomous vehicle in a Open Road Testing environment | | |
| **Objective:**  *(Steps taken to reach that goal?)* | - Head to Linton Street and Sommers 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 Linton Street, 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 an AFT of this route. | | |
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| **Trainer**  **Feedback:**  *(What Went Well & Areas Of Improvement)* | Today Joe successfully carried out testing at our level 1 and 2 routes. He picked up the systems quickly and maintained good all round observations. His engagements into AV were nice and smooth with only a few accidentals, with time these were few and far between. Joe demonstrated no safety concerns and good hand position on the steering wheel during DC and following an intervention. After lunch we carried out Cali V2 routes. Joe had great all round observations, we discussed not conducting blindspot checks when moving forwards as this may be dangerous and that we only require him to do mirror checks. Blindspot of course if in doubt, but to not worry about them too much when driving straight.  Overall a very successful day with Joe showing a great ability to carry out testing. He is showing great skills towards becoming an AVSO. Well done Joe! | | |
| **Learner Self-Reflection:** | I found the Sommers town and Linton street routes great as a first dabble in Open road training. Operating the AV in a real world setting felt surprisingly normal and natural. The confidence in the ability of the machine (at times), as well as the knowledge that we can intervene to maintain safety is very reassuring.  The Cali V2 routes were also great, Kieran provided great feedback that I may be doing shoulder checks almost too much at times, I agree I am likely overcompensating in that area as I understand the importance of such checks, and take the feedback onboard to make sure my checks are at a balanced level. | | |

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| **Name:** | Joe Fairclough | | |
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| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |
| **Date:** | 15/03/24 | | |
| **Aim:**  *(Overall goal?)* | Continue to develop your ability to operate Autonomous vehicles in more complex environments | | |
| **Objective:**  *(Steps taken to reach that goal?)* | - Conduct testing on Alpha 1, 2 routes and a 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)* | Joe conducted testing in Alpha 1&2, Crouch End and Finsbury park today and did really well. There were a couple of occasions this morning when he allowed the model to continue at lights that were changing to red. We had a discussion about it, which Joe took on board and made sure it didn’t happen again throughout the rest of the day.  I have no further safety concerns with Joe and feel he has grasped everything really well. | | |
| **Learner Self-Reflection:** |  | | |

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| **Name:** | Joe Fairclough | | |
| --- | --- | --- | --- |
| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |
| **Date:** | 16/03/24 | | |
| **Aim:**  *(Overall goal?)* | 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?)* | - 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?)* | 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:** |  | | |

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