| **Lesson Plan** | | | |
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| **Name:** | Vitor Velosa | | |
| **Job Title:** | Autonomous Vehicle Safety Operator (AVSO) | | |

| **Date:** |  | | |
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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)* | Good introduction to the day, well done. We look forward to working with you this week. | | |
| **Learner Self-Reflection:** | Avso training day 1,  For me personally, I feel we should be made aware of what we are going to expect and see throughout training like it was demonstrated by trainers. But perhaps with less info into detail of things we haven’t got to just yet in a physical experience would be better to digest.. Otherwise very consistent training.👍🏻 Well laid out quiz that reflect what we had previously learned and on which day of training. | | |

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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 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)* | Good start to your training well done, you understood the systems well when working with the UI, you were able to complete the gamepad check and you should competence in this. When you completed the engagements you found difficulty in releasing the accelerator pedal and applying the AV button however with continuous repetition you completed this successfully and was able to show competence in CRT testing. Well done. | | |
| **Learner Self-Reflection:** | Millbrook is definitely a safe and great physical experience of what it would be like on the road, especially with a trainer giving you imaginative scenarios to be prepped for. I was surprised how quick i..  Understood the system when it came to intervening then back to AV to a point it became smooth while checking for supposed hazards as you would on Dc. | | |

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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 a AFT of this route. | | |
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| **Trainer**  **Feedback:**  *(What Went Well & Areas Of Improvement)* | Today we conducted the first of our of our testing routes. During the morning Vitor showed good ability to understand how the system worked. We had a discussion about how he presses the engagement button and how it is ok to look down to recognise where it is, only in time will knowing it without looking down become more natural. Interventions were good with no concern for safety. On the DC over to Sommers Tow, we had a close call with a pedestrian on a crossing to which we discussed he needs to maintain more overall observations and forward planning. Sommers town testing went great with the model doing a few obscure actions and Vitor correctly making the intervention. The afternoon he conducted Cali V2 runs with Will to which no concerns were raised. Well Done Vitor, keep up the good work!  Things to focus on: - Slow Down, don’t feel you have to rush things, take your time and forward plan your actions so you don’t feel you have to do everything at one moment - Improve observations in both DC and AV to make sure your awareness remains high | | |
| **Learner Self-Reflection:** | I appreciate the feedback and i’ll continue to work on taking my time as suggested in order to not allow room for many or any mistakes. | | |

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| **Name:** | Vitor Velosa | | |
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| **Date:** | 18/03/24 | | |
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| **Aim:**  *(Overall goal?)* | - Conduct testing on Cali V2 routes and build up to Alpha routes - 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 Cali V2, and Alpha Lane routes | | |
| **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)* | Vitor showed continued growth when expanding to new routes today. The environments got more dynamic and extra care was given. I would like to see Vitor slow down and take more time, i feel sometimes when engaging AV or following an intervention, he rushes to get back into AV. We had a discussion about taking more time and not feeling like he needed to get back into it straight away, clear the situation and then re-engage.  Vitor was informed not to touch the vehicles controls when conducting AV following reaching to adjust the vehicle's air flow system. I mentioned that this must not be done and to just pull over if he needs to adjust anything in the vehicle going forward.  Overall it was a great day to see him continuing to build his skills, i would like to see Vitor focusing on taking his time, breaking things into manageable sizes and not rushing. | | |
| **Learner Self-Reflection:** | I completely agree Shima, I was rushing to do some things and this something that I will improve. I’ve always had the opposite training in previous job roles and careers where I need to quickly learn to get on the shop floor or out on the road. I will definitely pay extra attention to what you highlighted. I appreciate you gave me chances to react 1st wheather on AV or DC to then give me feed back after. I really helped me not to do mistakes one after the other. | | |

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| **Date:** | 19/03/24 | | |
| **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)* | Today Vitor conducted AV experiments in Crouch End and encountered a problem with the brake pedal not disengaging the AV. He handled this really well by staying calm and immediately reapplying the brake, which worked the second time.  He had a few accidental interventions due to not lifting his foot off the pedal on time when pressing the button, he worked on this and got the hang of it throughout the day.  I have no safety concerns with Vitor conducting AV testing. | | |
| **Learner Self-Reflection:** |  | | |