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# Dissertation Proposal Form

| **Student Name** |  | **Supervisor Name** |  |
| --- | --- | --- | --- |
| **Student Number** |  | **Course** |  |
| **Project title:** | EVALUATING THE ASSESSMENT OF QUALITY ASSURANCE IN ELECTRONIC VEHICLES AND IDENTIFYING ITS PROS AND CONS | | |
| **Start and end dates of research:** | The present research will start from 1st May and will end on 30th August. | | |
| **Proposed activity – aims, objectives, research question(s), and state how it is novel** | | | |
| **Aim-** The aim of the research is to develop the quality management and assurance in Electronic vehicles as well as assess the pros and cons effectively.**Objectives**   * To identify properly the implementation process of quality assurance for electronic vehicles * To assess the possible pros and cons of quality assurance in EVs * To analyse the possible issues and cases of quality management system by executing EVs * To identify the effective strategies for making the quality developed in the implementation process of EVs   **Research questions**   * Why is it essential to identify properly the implementation process of quality assurance for electronic vehicles? * What are the possible pros and cons of quality assurance in EVs? * What are the problems or cases of quality management executed in EVs? * How to identify effective strategies for making the development process in quality management in EVs?   Quality assurance in the electronic vehicle industry makes the process smoother by implementing new innovative strategies. By providing a new perspective in the recent business procedure the elaborative, minimising and pre-existing elements become developed and improve the business process. | | | |
| **Methodology – rationale, data selection and collection, recruitment, participant demographics, analytical process** | | | |
| **Rationale**  ***What is the issue?***  It has been observed that the main problem in the EV industry is the development process which has increased at a high level and increased the issues such as issues regarding the battery, controlling climate change issues and the reliability problems. The implementation of the new electronic devices with high-efficiency power impacts the environment and causes harmful effects. These are highly responsible for the climate-changing process.  ***Why is the issue***  It can be said that after the globalization process, the changes in the automobile industry have made an impact on the business process as well as on the environment. The changes have created some issues regarding the environment and the business procedure of electronic vehicles. The competition level in the global market has increased immersively and made many opportunities for the new business to enter the market. This has made the competition level more strong.  ***Why is the issue in the present time?***  In the present time, it has become an issue as the increase of the innovative system has become increased and impacted the environment and made the competition level hard in the global economy (de Leon and Shin, 2022).  **Data selection and Data collection**  In order to make the research study effective, the secondary qualitative research method will be involved and implemented successfully. For making the research effective the secondary qualitative data helps in collecting the data through different sources such as the scholarly articles, authentic databases, journals and others. The public library can also be included in the research process for obtaining the right and original data efficiently. All these resources will help in gathering the relevant data quickly and in an easy way. The current authentic data is required for the particular research process in order to get the right information and possible solution that can help in developing the quality management and give assurance to the customers (Osatis and Asavanirandorn, 2022). It will highly make a benefit for the EV industry to increase its profit margin and improve the customer base.  **Recruitment**  **Participant demographics**  The demographics involve the age, race, income, employment, ethnicity and others. In the context of the EV industry, the participants can be the EV commercial brands.  **Analytical process**  It is an important part of the research study that needs to be implemented efficiently and make the business procedure increase. The data will be gathered through the secondary qualitative method. it requires to be analysed properly. It highly helps in the determining procedure of the method and techniques accurately. The analytical process will help in understanding the different levels of the several themes related to the research topic. | | | |
| **References** | | | |
| Osatis, C. and Asavanirandorn, C., 2022. An Exploring Human Resource Development in Small and Medium Enterprises in Response to Electric Vehicle Industry Development. *World Electric Vehicle Journal*, *13*(6), p.98.  de Leon, M. and Shin, H.S., 2022. Review of the advancements in aluminum and copper ultrasonic welding in electric vehicles and superconductor applications. *Journal of Materials Processing Technology*, p.117691.  Chinen, K., Matsumoto, M., Tong, P., Han, Y.S. and Niu, K.H.J., 2022. Electric Vehicle Owners’ Perception of Remanufactured Batteries: An Empirical Study in China. *Sustainability*, *14*(17), p.10846. | | | |
| **Project management** | | | |
| Table: Project timeline and key outputs   | **Month** | **Activity** | | --- | --- | | May | Identifying the research topic | | May | Literature review of the research | | June | Methodological view | | June | Data analysis | | July | Findings and discussion | | July | Conclusion and recommendation | | August | Submission |   Supervision Meetings | | | |
| **Research Data Management Plan (Describe the data you expect to acquire or generate during this research project, how you will manage, describe, analyse, and store the data and what mechanisms you will use to share and preserve your data.**) | | | |
| The data management plan is for managing the data which will be gathered through the secondary qualitative data collection process. The collected data will be managed through documentation and stored in the computer for further processes.  During this research, the data will be gathered from different scholarly articles and journals, authenticated sites and also through the public library. This will highly help in gathering much unknown knowledge on the quality management of electronic vehicles and assuring the customers on products and services efficiently (Chinen *et al.*, 2022). This will make the business process develop and improve the quality management of the organization.  The analysis and storage of the data should be accurate for making the research successful. The data based on the quality management of the EV industry and the possible advantage and disadvantage will make realise the strategies that need to be implemented for making a success and generate a positive outcome.  The data can be stored in three individual ways such as in a file storage, object storage and in the block storage. | | | |
| **Planned outputs/publications/research datasets/impact/dissemination** | | | |
| In order to make the research more flexible and easy the development of the management plan need to obtain the specific elements in the research which will be involved in making the research become succeed and generating effective results.  The research datasets will include databases and spreadsheets in order to manage the data efficiently. | | | |
|  | | | |

| If successful, I undertake to carry out the research according to the University’s Ethics code of Practice and will be required to complete an Ethics checklist – see relevant forms detailed under Primary Research (Applicant’s signature required) | …………………………………………………. |
| --- | --- |
|  |  |
| Date and signature of Supervisor approval | …………………………………………………. |
|  |  |
| Date and signature of Employer approval (required for Apprentices only) | …………………………………………………. |

**ETHICS REVIEW PROCESS STUDENT**

The ethics review process of students involves manipulation techniques to obtain informed consent before collecting the data. The human participation is required in order to observe and obtain authentic data from authentic resources.

**ETHICS REVIEW PROCESS STAFF**

The ethics review process for the staff the manipulation technique will be involved and obtain informed consent before gathering the data properly. Active participants will be needed the making the research become succeed.











# Research Ethics Application Form

All research conducted by Arden University students require ethical approval. The application should be sent to your supervisor with your research proposal and any supporting documentation such as a recruitment invitation letter or guide, recruitment flyer (online/offline), participant information sheet, informed consent form, permission letter form an organisation to use their premises, participant instruction guide, questionnaire, measures, interview questions, debrief form, and any supporting or additional documentation that will be provided to the participants, or those helping with the research such as gatekeepers and assistants.

# Secondary Research Only (Answer up to and including Question 3)

Complete information up to and including Question 3 if you are conducting ONLY secondary research and can answer YES to the following question:

This investigation will NOT involve the collection of data from human participants, though it may collect data about individuals from published matter (e.g., previously published interviews or behavioural data).

Once the application and research proposal are reviewed and approved by your Supervisor, it will be sent to the Module Leader (ML)/Programme Team Leader (PTL) for final approval. **You cannot collect data until final approval has been provided by the ML/PTL**.

Please complete the information below.

Please circle Yes or No to the following questions and where indicated please provide further information

1. Are you required to use a professional code of ethics and conduct relevant to your profession (e.g. British Psychological Society, Health Care Professions Council National Health Service, Ministry of Defence, the Law Society)

YES/NO

No

If yes, please state

1. If yes, have you read the relevant professional code of ethics and conducts?

YES/NO

Yes

1. Are you sourcing secondary data? (e.g. Information from web sites, journal articles, archives)

YES/NO

Yes

If yes, please provide details

The present research will be conducted through the secondary qualitative research method which will include the authentic website and scholarly articles, and journals in order to make the research succeed. The collection of authentic data makes the research effective. The Data Protection Act 2010 will be involved in protecting the relevant data gathered by the researcher.

# (THIS IS THE END OF THE FORM TO BE COMPLETED IF YOU ARE UNDERTAKING SECONDARY RESEARCH)

(IF CONDUCTING PRIMARY RESEARCH, PLEASE COMPLETE THE REST OF THE FORM

Primary research is used if your investigation involves the collection of data directly from human participants, rather than depending on data collected from previously completed research, and this can be in the form of a questionnaire, survey, interview or experiments.

All forms for primary research **MUST** accompany this Ethics form, including

A **full** draft of the questionnaire, interview questions, survey or experiment

PLUS:

* Participant Information Sheet
* Participant Informed Consent Form
* Participant Debrief Sheet
* Evidence of organisational approval (where relevant)
* Recruitment poster/invitation letter or email

These forms can be found in the Dissertation Module on ilearn

A proviso is to be used if all of the correct paperwork has been submitted, and this includes a questionnaire that addresses the research aims and objectives but which requires some minor amendments such as phrasing of questions, typos, grammatical errors and so on. Therefore, the form can be approved as long as the conditions of the proviso are met. Guarantee of the changes being met can be authorised by the supervisor and this will save going through the whole proposal/ethics approval process again. The supervisor MUST see the proviso changes before the student uses the instrument.

1. Are you using an external research instrument or validated scale? (e.g. survey/psychometric))

YES/NO

If yes, please provide a reference.

1. Are you sourcing primary data involving participants (e.g. Surveys, interviews, focus group, Internet forums)?

YES/NO

1. Are you dealing with sensitive data (e.g. personal data, organisational data, those with vulnerable groups)?

YES/NO

If yes, please outline how this data will be stored securely to ensure compliance with GDPR (all data MUST be stored on the AU Onedrive, not on personal drives)

1. Are you sourcing secondary data? (e.g. Information from web sites, journal articles, archives)

YES/NO

If yes, please provide details

1. Does the study require DBS (Disclosure and Barring Service) checks?

\*\*Please note that unless already working with this population, permission will not be granted to students to data collect from this population)

YES/NO

If yes, please provide serial number, date obtained and expiry data

1. Does the study involve direct contact with:

\*\*Please note that unless already working with this population, permission will not be granted to students to data collect from this population)

Vulnerable adults (e.g. learning difficulties, dementia, living in residential care) YES/NO

Those under the age of 18 YES/NO

Adults in prison/remanded in custody/on bail YES/NO

If yes, please outline the participant group

# Data Security

1. Can you guarantee the full security and confidentiality of data collected?

YES/NO

If no, please outline reasons

\*\*Please note that any electronic data should be stored on Arden University’s one drive (therefore students must use their Arden email address for data collection, communication etc.)

1. Please outline how you will ensure anonymity and confidentiality of data
2. Will you be responsible for destroying the data after the research is complete?

YES/NO

If yes at what date will the data be destroyed?

If no, who will be responsible?

\*\*Please note that data should be destroyed as soon as possible (when full data usage has been completed) but no later than 3 years from data collection.

# Informed Consent

1. Will all participants receive information as to why the research is being conducted and what their participation will involve?

YES/NO

If no, please state reasons

1. Will all participants be asked to give informed consent before the study starts?

YES/NO

If no, please state reasons

1. Will all participants be told of the data being collected and how the data be used?

YES/NO

If no, please state reasons

1. Will all participants be told that they do not have to participate in the research?

YES/NO

If no, please state reasons

1. Does the study involve deception?

YES/NO

If yes, please provide detail

# Risk of Harm

1. Is there any risk that the research may lead to physical/psychological harm or disclosure of criminal activities/convictions?

YES/NO

If yes, please outline and explain what you will do to reduce risks

1. Is there any significant risk that participants may disclose the harming of others or harming of themselves?

YES/NO

If yes, please provide details and actions you will take

# Participant Recruitment

1. Are you proposing to recruit participants who are students or staff or Arden University?

YES/NO

If yes, please provide details of any potential conflict of interest and how this will be mitigated

1. Employees of organisations?

YES/NO

If yes, how will permission be gained from the organisation?

1. Students through educational institutions?

YES/NO

If yes, how will permission be gained from the institution?

1. Participants in residential care, social care, nursing homes

YES/NO

If yes, how will permission be gained from the organisation and individuals/carers?

1. Adults in prison, in custody, on remand

YES/NO

If yes, how will permission be gained from the organisation and individuals?

# Online Research

1. Will any of your research involve online data collection?

YES/NO

(e.g. online surveys, Facebook, Linkedin. Twitter)

If yes, how will permission be obtained to collect data if necessary?

1. Will you be using a survey software (e.g. Gorilla or Microsoft Forms)?

YES/NO

If yes, please provide details

# Participant Payment

1. Are payments/incentives being offered to participants?

YES/NO

If yes, please provide details

1. Will you tell participants that payment/incentives do not affect participants right to withdraw their data?

YES/NO