
Plan Overview

A Data Management Plan created using DMPTool

Title: Power Supply Process Optimization

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Template: Digital Curation Centre

Project abstract:

The L3Harris facility has a set process in which the power supply unit is assembled. This process works well but could be modified to be more efficient. Tools such as 5S+1, value stream mapping, waste reduction analysis, spaghetti charts, and RULA risk scores can be used to further identify where changes can be made.

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Power Supply Process Optimization

Data Collection

What data will you collect or create?

- RULA scores to identify ergonomic risk for each step in the process
- 5S + 1 implementation/improvements at each step in the process
- Changes to at least 2 workstations based on risk obtained from RULA score
- Changes to at least 2 workstations based on information obtained from value stream mapping

How will the data be collected or created?

- Rula scoresheet criteria
- Value stream map
- Spaghetti Chart
- Observation of each task in process

Documentation and Metadata

What documentation and metadata will accompany the data?

Not using metadata. Documentation will be project reports of changes recommended.

Ethics and Legal Compliance

How will you manage any ethical issues?

All data collected will only be accessible by the team members, Dr. Parke, and Professor Juarez to prevent any unwanted leaks of sensitive data.

How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?

We will follow any instructions and guidelines given by ASU and the sponsor in case of issues regarding copyright and intellectual property rights.

Storage and Backup

How will the data be stored and backed up during the research?

All data will be stored on the team members' personal computers as well as shared with team sponsor and Professor Juarez. If data is lost, someone else will own a backup.

How will you manage access and security?

The only individuals given access to any data collected will be the three team members as well as Dr. Parke and Professor Juarez.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

All data collected should be preserved. Conclusions made based on the data collected should have long term value and will be saved.

What is the long-term preservation plan for the dataset?

All data collected will be turned over to sponsor who can keep what is deemed valuable for long term preservation.

Data Sharing

How will you share the data?

Data will be shared with Dr. Parke and Professor Juarez via email.

Are any restrictions on data sharing required?

All data will be exclusively given to those involved and not shared with anyone outside of the project.

Responsibilities and Resources

Who will be responsible for data management?

Project team members will be responsible for keeping a detailed record of all data.

What resources will you require to deliver your plan?

Any resources needed for plan are yet to be seen but proper communication with sponsor will ensure plan will be completed.