

## Plan Overview

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*A Data Management Plan created using DMPTool*

**Title:** Power Supply Process Optimization

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**Funder:** Digital Curation Centre (dcc.ac.uk)

**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.

**Start date:** 02-09-2022

**End date:** 12-01-2022

**Last modified:** 02-10-2022

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## **Power Supply Process Optimization**

### **Data Collection**

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#### **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**

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#### **What documentation and metadata will accompany the data?**

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

### **Ethics and Legal Compliance**

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#### **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**

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### **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**

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### **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**

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### **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**

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### **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.

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