

2021 Final Year Project Definition Form

Project Title:

Optimising the flow at Aerosud Receiving Warehouse

Company details:

Aerosud Aviation Pty (LTD)

Company background:

Aerosud was established in 1990 in Pretoria, South Africa and currently employs more than 800 people. It is an aeronautical and manufacturing company focusing on producing new innovative and high quality products for various customers. Parts include interior aircraft parts and assemblies for Boeing, metal parts for the Airbus A320 & A350 family wings, interior and metal parts for Airbus A400 Military Germany and France. Aerosud also produce specialized quality parts for overseas and local customers including BAE systems, Spirit AeroSystems and Paramount Group. Aerosud has a strong focus on the Theory of Constraints methodology to improve company performance.

Project description:

Aerosud's receiving is a constraint and is restricting flow to production. The student needs to apply their theory to identify, exploit, subordinate and elevate the constraint. The student must also develop techniques or methods to be implemented to improve the flow at receiving that can be sustainable. The scope of the project is focused on Aerosud's receiving, but the student will need to consider the upstream and downstream activities as well.

The following tasks are envisaged:

- Create process maps
- Capacity analysis, including time studies
- Identifying current problems, constraints, limitations and inefficiencies
- Performing literature study on methods to improve production performance and problem solving
- Create simulation models
- Defining and creating methods or systems to achieve the required customer demand as well as increasing Throughput and reducing Inventory and Operating Expense.
- Developing implementation process to support the demand increase and improve overall flow and efficiency.

Industry mentorship:

Guidance will be given from an experienced group within the Supply Chain department which include industrial engineers

Industry mentor contact details:	Eugene Nel Inbound Supply Chain Manager	e.nel@aerosud.co.za	0825799539
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Project topic application process:

Students are expected to apply the 5 focusing steps of the Theory of Constraints.

Students are expected to spend time at Aerosud (on the job) where it will not be a project that can be solved from home! Students need to have their own laptop.

Application Deadline: 10 March 2021. Feedback will be given 12 March for successful candidates.

Any other relevant information:

For any more info please email any questions to Eugene at e.nel@aerosud.co.za