

Assessment Rubrics

- Question 1

Components	Band 3 (1-3)	Band 2 (4-6)	Band 1 (7-10)
Identification of points	<ul style="list-style-type: none"> • Unable to identify relevant points • Superficial explanation/no explanation of point 	<ul style="list-style-type: none"> • Able to identify some relevant points • Attempt to describe points with somewhat clear explanation • Attempt to link any relevant information to support elaboration of points 	<ul style="list-style-type: none"> • Able to identify multiple relevant points • Able to provide in-depth analysis on each point • Able to link any relevant information to support elaboration of points
Research	<ul style="list-style-type: none"> • Lack of research to support argument • Few insights provided from research information • Many unjustified claims 	<ul style="list-style-type: none"> • Demonstrates reasonable use of research to support arguments • Provide some insights into information obtained from research • Most claims are justified 	<ul style="list-style-type: none"> • Demonstrates extensive research in work • Able to provide deep insights from research • All claims are justified
Clarity of report and citations	<ul style="list-style-type: none"> • Report has inconsistent flow and is difficult to understand • Assumptions are sometimes unclear or unrelated to the discussion • No citations in the report 	<ul style="list-style-type: none"> • Report has a coherent flow and is presented clearly • Assumptions are largely presented clearly and relevant to the discussion • Some citations observed 	<ul style="list-style-type: none"> • Report is very clear and logical • All assumptions made are clearly presented and relevant to the discussion • All claims are cited with relevant sources

- Question 2

Component	Band 3 (1-3)	Band 2 (4-6)	Band 1 (7-10)
Task 1: Forecasting Model	<ul style="list-style-type: none"> • Model is not suitable for dataset • Few/No explanation for formulation of model 	<ul style="list-style-type: none"> • Model is somewhat appropriate for dataset • Some explanation provided for the formulation of model 	<ul style="list-style-type: none"> • Model accounts for most of the features of the dataset is a good fit • Excellent explanation of model formulation
Task 2: Number of machines required	<ul style="list-style-type: none"> • Calculations are illogical and poorly justified 	<ul style="list-style-type: none"> • Calculations are somewhat logical and justified 	<ul style="list-style-type: none"> • Calculations are logical and well-justified
Reasoning and assumptions	<ul style="list-style-type: none"> • Assumptions are poorly reasoned and irrelevant 	<ul style="list-style-type: none"> • Assumptions are somewhat reasonable and relevant 	<ul style="list-style-type: none"> • Assumptions made are reasonable and relevant
Task 3: Feasibility and Depth of solutions	<ul style="list-style-type: none"> • Ideas are generic, lack depth and/or feasibility • Many ideas proposed do not address the issues/concerns • Evaluation of ideas is brief with no explanations 	<ul style="list-style-type: none"> • Some ideas proposed are “off the shell” rather than designed to address the problem/concern • Some proposed ideas do not fully address the concerns and/or some are not feasible • Evaluation of ideas are adequate 	<ul style="list-style-type: none"> • Ideas proposed are creative, feasible and fully addresses the problems/concerns • Evaluation of ideas are deep and elegant. • Contain insightful explanations to justify the team’s stance

- Question 3

Component	Band 3 (1-3)	Band 2 (4-6)	Band 1 (7-10)
Linear program formulation	<ul style="list-style-type: none"> • No/wrong linear formulation details are provided 	<ul style="list-style-type: none"> • Unclear formulation of linear program 	<ul style="list-style-type: none"> • Clear formulation of linear program <p>Includes</p> <ul style="list-style-type: none"> - Objective - Decision variables - Constraints
Numerical Answer	<ul style="list-style-type: none"> • Wrong answer/Blank (0 marks) 	<ul style="list-style-type: none"> • Not Applicable 	<ul style="list-style-type: none"> • Correct number of machines of each type (5 marks) • Correct daily cost incurred (5 marks)