

QSO 300 Final Project Milestone Two Guidelines and Rubric

Overview: For the second milestone of your final project, you will submit a **quality, process, and location analysis case study analysis** that will address the typical problems that operations managers face. This case study analysis will be incorporated into the final summative analysis. **This milestone is due in Module Four.**

Prompt: Refer to the Nissan case study, your own independent research, and the course materials to answer the following items. Specifically, the following critical elements must be addressed:

Theories and Techniques

- A. Explain the five steps of the **theory of constraints** (TOC) process. To what processes might the company in the case study apply TOC? Why would applying TOC to these processes be advantageous?
- B. Describe how **total quality management** (TQM) principles and tools can be used to improve quality in the latest line of products in the context of the case study.

II. Data Analysis

- A. Draw a cause-and-effect **diagram** that assesses why some of the company's supply chain partners might have struggled to implement some of the company's newly developed materials. Summarize your findings from the diagram.
- B. Draw a hypothetical **process** (time-function) **map** for producing a recently released (within the past two years) product manufactured by the company. As an operations manager, how will you use the value map? Be sure to include your process map within your case study analysis.
- C. Considering the data and options below, determine where the company should locate its new manufacturing plant. Explain why this would be the favorable location.

Factor	Weight	Mexico City	Columbia, SC
Political Risk	.25	70	80
Transportation Costs	.20	40	90
Labor Productivity	.20	85	75
Rental Costs	.15	90	55
Labor Costs	.10	80	50
Taxes	.10	90	50

Guidelines for Submission: The format for this assignment will be a Word document using a business writing format of your choice. There is no minimum page length requirement, but the submission should be double spaced, and no more than four pages in total. Copy and paste any data analysis from Excel into your Word document for submission. You may include your original Excel documents as supplementary material if you believe this will strengthen your contribution.



Rubric

Critical Elements	Proficient (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
Theories and	Correctly explains the five steps	Correctly explains the five steps	Does not explain the five steps	18
Techniques:	of TOC and explains why it would	of TOC but does not explain why	of TOC or explanation is	
Theory of	be advantageous to apply TOC to	it would be advantageous to	incorrect	
Constraints	specific processes in the case	apply TOC to specific processes in		
	study	the case study		
Theories and	Describes how TQM can be used	Describes how TQM can be used	Does not describe how TQM	18
Techniques:	to improve quality in the context	to improve quality but does not	can be used to improve quality	
Total Quality	of the case study	provide context in the case study		
Management				
Data Analysis:	Properly draws a cause and effect	Properly draws a cause and effect	Does not properly draw a cause	18
Diagram	diagram assessing the struggle to	diagram assessing the struggle to	and effect diagram	
	implement newly developed	implement newly developed		
	materials and summarizes	materials but does not		
	findings	summarize findings		
Data Analysis:	Accurately draws and includes a	Draws and includes a process	Does not draw and include a	18
Process Map	process map for product and	map for product, but drawing is	process map for a product	
	thoroughly describes how it	inaccurate, and description of		
	would be used by an OM	how it would be used by OM		
	manager	manager is either not thorough		
		or missing		
Data Analysis:	Correctly determines where the	Correctly determines where the	Does not correctly determine	18
Data	new plant should be located and	new plant should be located but	where the new plant should be	
	explains why this is a favorable	does not explain why this is a	located	
	location	favorable location		
Articulation of	Submission has no major errors	Submission has major errors	Submission has critical errors	10
Response	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	
	spelling, syntax, or organization	spelling, syntax, or organization	spelling, syntax, or organization	
		that negatively impact readability	that prevent understanding of	
		and articulation of main ideas	ideas	
			Total	100%