

QSO 520 Midterm Case Study Guidelines and Rubric

Guidelines for Submission: Case studies form an integral part of this course. Careful analysis relevant to each case study and its questions is required. Ensure that you succinctly address the critical elements. Review the <u>Midterm Case Study</u>. Answer the questions in the Word document and complete the spreadsheet <u>Coastal</u> <u>States Case Study</u>.

Critical Elements	Exemplary	Proficient	Needs Improvement	Not Evident (0%)	Value
Question 1:		Formulates the problem,	Formulates the problem,	Does not formulate the	10
Application of		develops the LP layout, uses	develops the LP layout, uses	problem, develop the LP layout,	
Methods, Tools, and		appropriate formulas for	appropriate formulas for	use appropriate formulas for	
Techniques		objective function and	objective function and	objective function and	
		constraints, and applies Excel	constraints, and applies Excel	constraints, and apply Excel	
		Solver program for finding	Solver program for finding	Solver program for finding	
		solutions, producing output	solutions, producing output	solutions, producing output	
		reports (100%)	reports, but with errors or gaps	reports (0%)	
			in knowledge (70%)		
Question 1: Accuracy	Analysis demonstrates an	Analysis demonstrates a good	Analysis demonstrates a limited	Analysis is absent or inadequate	10
of Answer and	excellent understanding of the	understanding of the use and	understanding of the use and	and/or demonstrates no	
Analysis	use and limitations of linear	limitations of linear	limitations of linear	understanding of linear	
-	programming (100%)	programming (90%)	programming (70%)	programming (0%)	
Question 1:	Submission is free of errors	Submission has no major errors	Submission has major errors	Submission has critical errors	5
Articulation of	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	
Response	spelling, syntax, and	spelling, syntax, or organization	spelling, syntax, or organization	spelling, syntax, or organization	
	organization and is presented in	(90%)	that negatively impact	that prevent understanding of	
	a professional and easy-to-read		readability and articulation of	ideas (0%)	
	format (100%)		main ideas (70%)		
Question 2:		Formulates the problem,	Formulates the problem,	Does not formulate the	10
Application of		develops the LP layout, uses	develops the LP layout, uses	problem, develop the LP layout,	
Methods, Tools, and		appropriate formulas for	appropriate formulas for	use appropriate formulas for	
Techniques		objective function and	objective function and	objective function and	
		constraints, and applies Excel	constraints, and applies Excel	constraints, and apply Excel	
		Solver program for finding	Solver program for finding	Solver program for finding	
		solutions, producing output	solutions, producing output	solutions, producing output	
		reports (100%)	reports, but with errors or gaps	reports (0%)	
			in knowledge (70%)		



Question 2: Accuracy	Analysis demonstrates an	Analysis demonstrates a good	Analysis demonstrates a limited	Analysis is absent or inadequate	10
of Answer and Analysis	excellent understanding of the use and limitations of linear programming (100%)	understanding of the use and limitations of linear programming (90%)	understanding of the use and limitations of linear programming (70%)	and/or demonstrates no understanding of linear programming (0%)	
Question 2: Articulation of Response	Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format (100%)	Submission has no major errors related to citations, grammar, spelling, syntax, or organization (90%)	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas (70%)	Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas (0%)	5
Question 3: Application of Methods, Tools, and Techniques		Formulates the problem, develops the LP layout, uses appropriate formulas for objective function and constraints, and applies Excel Solver program for finding solutions, producing output reports (100%)	Formulates the problem, develops the LP layout, uses appropriate formulas for objective function and constraints, and applies Excel Solver program for finding solutions, producing output reports, but with errors or gaps in knowledge (70%)	Does not formulate the problem, develop the LP layout, use appropriate formulas for objective function and constraints, and apply Excel Solver program for finding solutions, producing output reports (0%)	10
Question 3: Accuracy of Answer and Analysis	Analysis demonstrates an excellent understanding of the use and limitations of linear programming (100%)	Analysis demonstrates a good understanding of the use and limitations of linear programming (90%)	Analysis demonstrates a limited understanding of the use and limitations of linear programming (70%)	Analysis is absent or inadequate and/or demonstrates no understanding of linear programming (0%)	10
Question 3: Articulation of Response	Submission is free of errors related to citations, grammar, spelling, syntax, and organization and is presented in a professional and easy-to-read format (100%)	Submission has no major errors related to citations, grammar, spelling, syntax, or organization (90%)	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas (70%)	Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas (0%)	5



Question 4:		Formulates the problem,	Formulates the problem,	Does not formulate the	10
Application of		develops the LP layout, uses	develops the LP layout, uses	problem, develop the LP layout,	
Methods, Tools, and		appropriate formulas for	appropriate formulas for	use appropriate formulas for	
Techniques		objective function and	objective function and	objective function and	
		constraints, and applies Excel	constraints, and applies Excel	constraints, and apply Excel	
		Solver program for finding	Solver program for finding	Solver program for finding	
		solutions, producing output	solutions, producing output	solutions, producing output	
		reports (100%)	reports, but with errors or gaps	reports (0%)	
			in knowledge (70%)		
Question 4: Accuracy	Analysis demonstrates an	Analysis demonstrates a good	Analysis demonstrates a limited	Analysis is absent or inadequate	10
of Answer and	excellent understanding of the	understanding of the use and	understanding of the use and	and/or demonstrates no	
Analysis	use and limitations of linear	limitations of linear	limitations of linear	understanding of linear	
	programming (100%)	programming (90%)	programming (70%)	programming (0%)	
Question 4:	Submission is free of errors	Submission has no major errors	Submission has major errors	Submission has critical errors	5
Articulation of	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	related to citations, grammar,	
Response	spelling, syntax, and	spelling, syntax, or organization	spelling, syntax, or organization	spelling, syntax, or organization	
	organization and is presented in	(90%)	that negatively impact	that prevent understanding of	
	a professional and easy-to-read		readability and articulation of	ideas (0%)	
	format (100%)		main ideas (70%)		
Total					