

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 [Midterm Case Study](#). Answer the questions in the Word document and complete the spreadsheet [Coastal States Case Study](#).

Critical Elements	Exemplary	Proficient	Needs Improvement	Not Evident (0%)	Value
Question 1: 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 1: 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 1: 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 2: 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 2: 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 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: 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 4: 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 4: 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
Total					100%