

## Network Design Proposal Part 1

▼ Competencies Section 1	▼ Level 3 90-100%	▼ Level 2 80-89%	▼ Level 1: Minimally Proficient 70 - 79%	▼ Not proficient
▼ Assess the need for network hardware to support the business or organization.	<p>15 points</p> <p>This includes:</p> <p><i>Comprehensive analysis of the business needs incorporating scholarly references</i></p> <p><i>Comprehensive Design Selecting/identifying the appropriate type of network hardware to use to include details and some optional equipment</i></p> <p><i>Justifications incorporate several scholarly and professional references</i></p>	<p>13 points</p> <p><i>Descriptive analysis of business needs</i></p> <p><i>Descriptive Design Selecting/identifying the appropriate type of network hardware incorporating essential details of the network hardware.</i></p> <p><i>Justifications use a couple of scholarly or professional references.</i></p>	<p>10.5 points</p> <p><i>Basic analysis of the business needs.</i></p> <p><i>Basic Design Selecting the required network hardware with a limited descriptive details.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	0 points
▼ Develop a proposal to design a network infrastructure based on business needs.	<p>15 points</p> <p>This includes:</p> <p><i>Comprehensive analysis of business needs incorporating scholarly references</i></p> <p><i>Proper network diagram(s) provided with detailed descriptions</i></p> <p><i>Justifications incorporate several scholarly and professional references</i></p>	<p>13 points</p> <p><i>Descriptive analysis of business needs</i></p> <p><i>Proper network diagram(s) provided with essential information</i></p> <p><i>Justifications use a couple of scholarly or professional references</i></p>	<p>10.5 points</p> <p><i>Basic analysis of business needs.</i></p> <p><i>Basic proposal with limited descriptions.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	0 points
▼ Assess the need for computer system hardware to support the business or organization.	<p>10 points</p> <p>This includes:</p> <p><i>Comprehensive analysis of the business needs incorporating scholarly references</i></p> <p><i>Comprehensive Design: Select/identify the</i></p>	<p>8.5 points</p> <p><i>Descriptive analysis of business needs.</i></p> <p><i>Descriptive Design Select/identify the appropriate type of computer system hardware with essential information.</i></p>	<p>7 points</p> <p><i>Basic analysis of the business needs</i></p> <p><i>Basic Design Select/identify the appropriate type of computer system hardware with basic information.</i></p> <p><i>Justifications presented use one</i></p>	0 points

	<p>appropriate type of network security devices presenting descriptive details and proposed optional network security devices</p> <p><i>Justifications incorporate several scholarly and professional references.</i></p>	<p><i>Justifications use a couple of scholarly or professional references.</i></p>	<p><i>scholarly or professional reference.</i></p>	
▼Assess the need for network security devices to support the business or organization.	<p>10 points</p> <p>This includes:</p> <p><i>Comprehensive analysis of the business needs in regards to network services and using some scholarly references to discuss the business needs</i></p> <p><i>Comprehensive Analysis: Select/identify the appropriate network services for the scenario including details and some optional network services. Network services cover all essential server or services needed as well as Internet connections. Justifications incorporate several scholarly and professional references.</i></p>	<p>8.5 points</p> <p><i>Descriptive analysis of business needs.</i></p> <p><i>Descriptive Design Select/identify the appropriate type of network security devices presenting essential information.</i></p> <p><i>Justifications use a couple of scholarly or professional references.</i></p>	<p>7 points</p> <p><i>Basic analysis of the business needs.</i></p> <p><i>Basic Design Select/identify the appropriate type of network security devices presenting basic information.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	0 points
▼Follow proper procedures and protocols in completing IT-related tasks.	<p>20 points</p> <p>This includes:</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Fully demonstrates the ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	<p>17 points</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Essential evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	<p>14 points</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Limited evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	0 points
▼ Competencie	▼ Level 3 90-100%	▼ Level 2 80-89%	▼ Level 1: Minimally Proficient 70	▼ Not

Score Overall			- 79%	proficient
▼ Satisfy standards of writing style and grammatical correctness.	20 points  <i>Using IEEE citation style</i>  <i>Using credible reasoning, appropriate research, and supporting evidence in communication</i>  <i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i>  <i>Satisfies standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i>	17.8 points  <i>Using IEEE citation style</i>  <i>Using credible reasoning, appropriate research, and supporting evidence in communication</i>  <i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i>  <i>One or more errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i>	15.8 points  <i>Using IEEE citation style</i>  <i>Using credible reasoning, appropriate research, and supporting evidence in communication</i>  <i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i>  <i>Several errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i>	0 points
▼ Overall Score	▼ Level 5 103.5 or more	▼ Level 4 92 or more	▼ Level 3 80.5 or more	▼ Level 1 0 or more

## Network Design Proposal Part 2

Competencies Section 2	▼ Level 3 90-100%	▼ Level 2 80-89%	▼ Level 1: Minimally Proficient 70 - 79%	▼ Not proficient
▼ Develop a proposal to design a network infrastructure based on business needs.	60 points  This includes:  <i>Comprehensive analysis of the business needs incorporating scholarly references.</i>  <i>Provides comprehensive subnetting information using classless subnetting to minimize wasted address space. All possible subnets accounted for.</i>  <i>Providing complete step-by-step details to show how the subnetting information are calculated.</i>	51 points  <i>Descriptive analysis of business needs</i>  <i>Provides subnetting information using classless subnetting to minimize wasted address space, but missing some optional subnets</i>  <i>Providing the descriptive details to show how the subnetting information are calculated</i>	42 points  <i>Basic analysis of the business needs</i>  <i>Provides subnetting information using standard C class subnetting to account for all major subnets required.</i>	0 points
▼ Follow proper	20 points	17 points	14 points	0 points

<p>procedures and protocols in completing IT-related tasks.</p>	<p>This includes:</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Fully demonstrates the ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	<p><i>Identify and apply the appropriate software licensing model for the software used in the proposal</i></p> <p><i>Essential evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols</i></p>	<p><i>Identify and apply the appropriate software licensing model for the software used in the proposal</i></p> <p><i>Limited evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols</i></p>	
<p>▼ Competencies Overall</p>	<p>▼ Level 3 90-100%</p>	<p>▼ Level 2 80-89%</p>	<p>▼ Level 1: Minimally Proficient 70 - 79%</p>	<p>▼ Not proficient</p>
<p>▼ Satisfy standards of writing style and grammatical correctness.</p>	<p>17.8 points</p> <p>20 points</p> <p>This includes:</p> <p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>Satisfying standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i></p>	<p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>One or more errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i></p>	<p>15.8 points</p> <p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>Several errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i></p>	<p>0 points</p>
<p>▼ Overall Score</p>	<p>▼ Level 5 103.5 or more</p>	<p>▼ Level 4 92 or more</p>	<p>▼ Level 3 80.5 or more</p>	<p>▼ Level 1 0 or more</p>

## Network Design Proposal Part 3

Competencies Section 3	Level 3 90-100%	Level 2 80-89%	Level 1: Minimally Proficient 70 - 79%	Not proficient
<p>▼ Assess the need for network services to support the business or organization</p>	<p>30 points</p> <p>Providing excellent coverage.</p> <p>This includes:</p> <p><i>Comprehensive analysis of the business needs in regards to network services and using some scholarly references to discuss the business needs.</i></p> <p><i>Comprehensive Analysis Select/identify the appropriate network services for the scenario including descriptive details. Network services cover all essential server or services needed as well as Internet connections. Justifications incorporate several scholarly and professional references.</i></p>	<p>25 points</p> <p><i>Descriptive analysis of business needs.</i></p> <p><i>Descriptive Analysis - Select/identify the appropriate network services for the scenario including descriptive details. Network services cover all essential server or services needed as well as Internet connections.</i></p> <p><i>Justifications use a couple of scholarly or professional references</i></p>	<p>21 points</p> <p><i>Basic analysis of the business needs.</i></p> <p><i>Basic Analysis Select/identify the appropriate network services for the scenario including basic information. Network services do not cover all essential server or services needed as well as Internet connections.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	<p>0 points</p>
<p>▼ Apply and implement appropriate security measures on a network to support the business or organization.</p>	<p>20 points</p> <p>Providing comprehensive coverage</p> <p>This includes:</p> <p><i>Comprehensive analysis of the business needs in regards to network security measures and using some scholarly references to discuss the business needs.</i></p> <p><i>Identify network security measures needed and provides detailed information about them. Network security measures include preventative and maintenance measures.</i></p> <p><i>Justifications use a couple of scholarly or professional references</i></p>	<p>17 points</p> <p><i>Descriptive analysis of business needs.</i></p> <p><i>Identify network security measures needed and provides basic information about them. Network security measures do not include preventative and maintenance measures.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	<p>14 points</p> <p><i>Basic analysis of the business needs</i></p> <p><i>Identify network security measures needed and provides basic information about them. Network security measures do not include preventative and maintenance measures.</i></p> <p><i>Justifications presented use one scholarly or professional reference.</i></p>	<p>0 points</p>

	<p><i>information about them. Network security measures should also include preventative and maintenance measures. Additional optional measures are also provided to create a more comprehensive design.</i></p> <p><i>Justifications incorporate several scholarly and professional references.</i></p>			
▼Follow proper procedures and protocols in completing IT-related tasks.	<p>30 points</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Fully demonstrates the ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	<p>25 points</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Essential evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	<p>21 points</p> <p><i>Identify and apply the appropriate software licensing model for the software used in the proposal.</i></p> <p><i>Limited evidence presented to demonstrate ability to make network administration or Cybersecurity decisions based on best practices and/or standard procedures/protocols.</i></p>	0 points
▼ Competencies Overall	▼ Level 3 90-100%	▼ Level 2 80-89%	▼ Level 1: Minimally Proficient 70 - 79%	▼ Not proficient
▼Satisfy standards of writing style and grammatical correctness.	<p>20 points</p> <p>This includes:</p> <p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>Satisfying standards of writing style and grammatical correctness, including the use of industry-</i></p>	<p>17.8 points</p> <p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>One or more errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i></p>	<p>15.8 points</p> <p><i>Using IEEE citation style</i></p> <p><i>Using credible reasoning, appropriate research, and supporting evidence in communication</i></p> <p><i>Synthesizing sources appropriately using paraphrase, summary, and quotation</i></p> <p><i>Several errors found that does not satisfy the standards of writing style and grammatical correctness, including the use of industry-standard terminology and vocabulary</i></p>	0 points

	<i>standard terminology and vocabulary</i>			
<b>Overall Score</b>	<b>Level 5 103.5 or more</b>	<b>Level 4 92 or more</b>	<b>Level 3 80.5 or more</b>	<b>Level 1 0 or more</b>