



## ASHRAE Building Energy Modeling Professional (BEMP) Exam Content Outline

**Black Font** = Weightings beginning June 1, 2025; **Red Font** = Weightings on current exam

Content Domain	Weighting	# Items
Domain 1: Establishing the Modeling Scope	17%	17
Domain 2: Components of Building and Energy Systems	29% <b>38%</b>	29 <b>38</b>
Domain 3: Applications of Energy Models for Buildings	27% <b>22%</b>	27 <b>22</b>
Domain 4: Interpretations of Energy Model Results	27% <b>23%</b>	27 <b>23</b>
<b>TOTAL</b>	100%	100

### Weighting of Subdomains

Domain 1: Establishing the Modeling Scope		<i>Complexity Level and Number of Items</i>			
Subdomain	Description	Recall	Application	Analysis	Total
1.1	Modeling Objectives	1 <b>0</b>	2 <b>1</b>	2	5 <b>3</b>
1.2	Analysis Methodologies	1 <b>2</b>	2 <b>3</b>	2 <b>3</b>	5 <b>8</b>
1.3	Software and Tool Selection	1	2	1	4
1.4	Project Scheduling and Budget Considerations	0	2 <b>1</b>	1	3 <b>2</b>
	<b>Totals</b>	<b>3</b>	<b>8 <b>7</b></b>	<b>6 <b>7</b></b>	<b>17</b>



Domain 2: Components of Building and Energy Systems		Complexity Level and Number of Items			
Subdomain	Description	Recall	Application	Analysis	Total
2.1	Location and Climate Definition	1	1	1	3
2.2	Building Envelope and Partitions	1	2	2	5
2.3	Building HVAC and Domestic Hot Water Systems	1 3	2 3	2	5 8
2.4	Lighting Systems	1	2 1	1	4 3
2.5	Other Internal and Process Loads	1 2	1	1 2	3 5
2.6	District Energy Systems	1 0	1	0 1	2
2.7	Renewable Energy Systems	0 1	1	1	2 3
2.8	Controls	1 2	2 4	2 3	5 9
	<b>Totals</b>	<b>7 11</b>	<b>12 14</b>	<b>10 13</b>	<b>29 38</b>

Domain 3: Applications of Energy Models for Buildings		Complexity Level and Number of Items			
Subdomain	Description	Recall	Application	Analysis	Total
3.1	Defining Appropriate Key Performance Indicators (KPIs)	2 3	3 5	3 2	8 10
3.2	Simulation Comparisons	2	3	4 2	9 7
3.3	Evolution of Simulation Techniques to Meet Project Methods	0	3 1	2 1	5 2
3.4	Baseline Building Models	2 1	2 1	1	5 3
	<b>Totals</b>	<b>6</b>	<b>11 10</b>	<b>10 6</b>	<b>27 22</b>



Domain 4: Interpretations of Energy Model Results		Complexity Level and Number of Items			
Subdomain	Description	Recall	Application	Analysis	Total
4.1	Verification and Troubleshooting of the Simulation	1	2 3	3	6 7
4.2	Analyzing and Comparing Modeling Results	1 2	2 4	3 2	6 8
4.3	Greenhouse Gas (GHG) Emissions Analyses (NEW)	1	1	1	3
4.4	Economic Analyses	1	1	1	3
4.5	Sensitivity Analyses	1 0	2 1	3 1	6 2
4.6	Project Deliverables	1	1	1	3
	<b>Totals</b>	<b>6 5</b>	<b>9 10</b>	<b>12 8</b>	<b>27 23</b>