

# Minnesota Department of Labor and Industry

## Residential Roofer Content Outline

Effective in 2010  
50 Scored Questions, 5 Pretest

<b>I. General Roofing Principles and Estimating</b>	<b>IRC 2006 R902</b>
A. Requirements Specific to Roofers	IRC 2006 R902
1. Bonding	IRC 2006 R902
2. Code Edition	IRC 2006 R902
B. Estimating	IRC 2006 R902
1. Basic roofing math skills	IRC 2006 R902
2. Determining pitch of roof	IRC 2006 R902
3. Evaluating an existing roof system (number of layers)	IRC 2006 R907
<b>II. Roof Deck Requirements</b>	<b>IRC 2006 R902</b>
A. Spaced Sheathing	IRC 2006 R803
B. Thickness and Type of Sheathing	IRC 2006 R803
<b>III. Underlayment</b>	<b>IRC 2006 R905</b>
A. Ice protection	IRC 2006 R905
B. General Interlayment	IRC 2006 R905
C. Half lap vs. 2-inch lap	IRC 2006 R905
D. General Underlayment	IRC 2006 R905
<b>IV. Pitched Roofs</b>	<b>IRC 2006 R905</b>
A. Asphalt Shingles	IRC 2006 R905
1. Starter course	IRC 2006 R905
2. Staples vs. Nails	IRC 2006 R905
3. Overhang	IRC 2006 R905
4. Attachment	IRC 2006 R905
B. Wood Shingles and Shakes	IRC 2006 R905
1. Grade of Wood	IRC 2006 R905
2. Minimum deck slope	IRC 2006 R905
3. Application	IRC 2006 R905
4. Standard of material	IRC 2006 R905
5. Overhang	IRC 2006 R905
C. Tile and Slate	IRC 2006 R905
1. Starter Course	IRC 2006 R905
2. Underlayment	IRC 2006 R905
3. Application	IRC 2006 R905
D. Metal Roofs	IRC 2006 R905
1. Compatibility of different metals	IRC 2006 R905
2. Structural Systems	IRC 2006 R905
3. Expansion and contraction	IRC 2006 R905
4. Manufacturer installation requirements	IRC 2006 R905
5. Attachment	IRC 2006 R905
6. Flashing	IRC 2006 R905

<b>V. Low-Sloped Roofs</b>	<b>IRC 2006 R905</b>
A. Rolled Roofing	IRC 2006 R905
B. Membranes	IRC 2006 R905
C. Built up	IRC 2006 R905
D. Drainage	IRC 2006 R903
<b>VI. Roofing Fasteners</b>	<b>IRC 2006 R905</b>
A. Types of Fasteners (nails, staples)	IRC 2006 R905
B. Location of Fasteners	IRC 2006 R905
C. Number of Fasteners	IRC 2006 R905
<b>VII. Flashing</b>	<b>IRC 2006 R905</b>
A. Step Flashing	IRC 2006 R905
B. Apron Flashing	IRC 2006 R905
C. Counter Flashing	IRC 2006 R905
D. Cricket/Saddle Flashing	IRC 2006 R905
E. Valley Flashing	IRC 2006 R905
F. Base and Cap Flashing	IRC 2006 R905
G. Kick Out Flashing	IRC 2006 R905
<b>VIII. Ventilation</b>	<b>IRC 2006 R905</b>
A. Installation of vents	IRC 2006 R806
B. Types of vents	IRC 2006 R905
C. Requirements	IRC 2006 R806
<b>IX. Reroofing</b>	<b>IRC 2006 R907</b>