

# Minnesota Department of Labor and Industry

## Residential Building Contractor Content Outline

Effective in 2010  
50 Scored Questions, 5 Pretest

<b>I. Plans and Specifications</b>	<b>2009 Minn. R. 1300</b>
A. Basic Plan Information	General Knowledge
B. Estimating	Modern Carpentry pg. 743, 2003 Common practice, Basic math for estimating, Basic Math Principles
<b>II. Energy Code (Envelope Criteria)</b>	<b>2009 Minn R. 1322</b>
A. Interior Air Barrier	2009 Minn R.1322
B. Wind Wash Barrier (Exterior)	2009 Minn.R.1322
C. Vapor Retarder	2009 Minn.R. 1322
D. Insulation	2009 Minn.R.1322
E. Fenestration (Doors and Windows) Openings	2009 Minn.R.1322
F. Mechanical/Passive Ventilation	2009 Minn.R.1322
<b>III. Building Planning/Life Safety</b>	<b>IRC 2006 Minn. R. 1309</b>
A. Means of Egress	IRC 2006 R310, IRC 2006 R311
B. Stairways	IRC 2006 R311
C. Smoke Detectors	IRC 2006 R313
D. Required Exit Door	IRC 2006 R311,
E. Wall between House and Garage	IRC 2006 R 309
F. Safety Glazing	IRC 2006 R308
G. Natural Light and Ventilation	IRC 2006 R303
H. Minimum Ceiling Heights	IRC 2006 R305
I. Replacement Windows	Modern Carpentry, 2003, pg. 336
<b>IV. Sitework</b>	<b>2009 Minn. R.1300</b>
A. Soils	IRC 2006, Table R405
B. Surveys	2009 Minn. R.1300
C. Excavation (Gopher One Call)	2009 Minn. R.1300
D. Filling/Soil Correction	2009 Minn. R.1300
E. Erosion Control	2009 Minn. R.1300
F. Backfill	2009 Minn. R.1300
G. Frost Protection	IRC 2006 R403, Minn. R. 1309 exception
<b>V. Concrete and Masonry-Footings and Foundations</b>	<b>IRC 2006 Table R402</b>
A. Strength of Concrete	IRC 2006 Table R402
1. Admixtures	IRC 2006 Table R402
2. Specification	IRC 2006, Table R402
3. Air entrainment	IRC 2006, Table R402
B. Curing	IRC 2006 R402
C. Foundation Wall Design	Modern Carpentry, Ch. 7, Footings and Foundations, IRC 2006 R607, IRC 2006 R202, IRC 2006 R404
D. Vertical Reinforcement and Anchors	2009 Minn. R. 1309 exception
E. Minimum Size Footings	IRC 2006 R403

F. Dampproofing and Waterproofing	IRC 2006 R406, Minn. R.1309
G. Slab-On-Grade	IRC 2006 R403
<b>VI. Carpentry</b>	<b>Modern Carpentry, 2003, pg. 729</b>
A. Protection Against Decay	IRC 2006 R319
B. Floor Systems	IRC 2006, R502
1. Engineered	IRC 2006, R502
2. Conventional	IRC 2006, R502
C. Wall Framing	IRC 2006 R602
D. Roof Framing and Trusses	IRC 2006 R802
1. Engineered	IRC 2006 R802
2. Conventional	IRC 2006, R802
E. Stairs	IRC 2006 R311
F. Decks and Balconies	IRC 2006 R312
G. Chimneys and Chases	IRC 2006 R802
H. Structural	IRC 2006 R802
I. Wood Foundations	IRC 2006 R404
<b>VII. Roofing</b>	<b>IRC 2006 R905</b>
A. Underlayment/Ice Protection	IRC 2006 R905
B. Rolled Roofing	IRC 2006 R905
C. Asphalt Shingles	IRC 2006 R905
D. Wood Shingles And Shakes	IRC 2006 R905
E. Flashing	IRC 2006 R905
F. Ventilation	IRC 2006 R806
<b>VIII. Exterior Finishes</b>	<b>IRC 2006 R 703</b>
A. House Wraps	IRC 2006 R703
B. Flashing	2009 Minn. R. 1309
C. Siding	IRC 2006 R703
1. Vertical	IRC 2006 R703
2. Wood	IRC 2006 R703
3. Aluminum and vinyl	IRC 2006 R703
4. Hardboard	IRC 2006 R703
D. Wood Shakes and Shingles	IRC 2006 R703
E. Stucco	IRC 2006 R703
F. Brick	IRC 2006 R703
<b>IX. Foam Plastic Insulation</b>	<b>IRC 2006 R314</b>
A. Flame Spread	IRC 2006 R314
B. Thermal Protection	IRC 2006 R314
<b>X. Interior Finishes</b>	<b>IRC 2006 R702</b>
A. Drywall	IRC 2006 R702
<b>XI. Associated Trades</b>	
A. Electrical	NEC 2008 MN Rule 1315
B. Plumbing	IRC Section R. 202
C. HVAC	2006 IMC 918, 2006 IMC - Definitions 202, 2006 IRC R303
<b>XII. Job Site Safety</b>	<b>2009 Minn. Stat. 144</b>
A. Asbestos	2009 Minn. Stat. 144
B. Lead	2009 Minn. Stat. 144