## STATE OF MICHIGAN

## CARPENTRY

## Business and Law examination specifications and suggested study materials are contained in the Candidate Information Bulletin.

# of	Passing %	Passing Raw
Questions	Score	Score
50	72	36

Τορ	PIC INFORMATION # OF ITEMS			
1.	PLAN	PLAN READING, ESTIMATING, AND		
			7	
	a.	Sketch Work Proposal for General		
		Reference		
	b.	Perform Site Layout		
	с.	Obtain Required Permits		
	d.	Contact MISS DIG to Verify Location		
		Underground Utilities, as Appropriat	е	
	е.	Estimate Job Material Needs		
	f.	Estimate Job Material Costs	a una a rat	
	g.	Submit Appropriate Construction Doo for Permitting Purposes	cument	
<u></u>	Doop	DOORS AND WINDOWS		
2.	a.	Install Doors (standard door -	7	
	a.	wood, metal, or plastic)	7	
	b.	Install Sliding Doors		
	с.	Install Garage Doors		
	d.	Install Windows		
	e.	Install Weather Seals		
	f.	Install Skylights		
	g.	Apply Weatherstripping and Seals		
	h.	Determine What Type of Replaceme	nt is	
		Needed		
_	i.	Accessibility Requirements		
3.		I CARPENTRY	•	
	a.	Understand Finish Carpentry	8	
		General Knowledge, Definitions, and Theory		
	b.	Perform Millwork		
	с.	Install Board Paneling		
	d.	Install Closet and Utility Wood Shelv	ing	
	e.	Assemble and Install Custom Cabinet		
	f.	Countertops (solid surface, laminate	, wood	
		surface, etc.)		
	g.	Finish Stairs After Framing		
	h.	Select and Install Standing and Runn		
	i.	Install Suspended/Acoustical Ceiling		
	j.	Install Gypsum Sheathing and Drywa Install Wood Floors	II	
4	k.			
4.		H CARPENTRY	11	
	a.	Perform Material Identification and Evaluation for Different Uses	11	
	b.	Use Span Tables, as Appropriate		
	υ.	use sparr ravies, as Appropriate		

	с.	Select and Install Engineered Lumber	
		Products	
	d.	d. Understand General Aspects of Wood Framing	
	e.	Assemble Floors	
	f.	Assemble Walls	
	g.	Assemble Ceilings	
	h.	Assemble Roofs	
	i. –	Frame Stairs	
	j.	Install Timber Trusses	
	k.	Install Engineered Wood Trusses	
	- I	Install Metal Support Assemblies	
	m.	Ensure Installation Complies with Egr	ess and
		Escape Requirements	
	n.	Ensure Installation Complies with Fire	е
		Blocking and Draft Stopping Requirer	
	о.	Ensure Structure Complies with Vent	ilation
		Requirements	
	р.	Apply Insulation as Needed	
	q.	Formwork	
5.	<b>SPECI</b>	ALTY INSTALLATIONS	
	a.	Assemble Heavy Timber	6
		Construction	
	b.	Install Treated Wood Foundations (Pe	ermanent
		Wood Foundation)	
	с.	Install Wood Decks and Manufactured	Decks
	d.	Install Wood Siding	
	e.	Aluminum/Screen Enclosures (sunroo	ms,
		etc.)	
	f.	Perform Open and Closed Panel Cons	truction
6.	SAFFT	Y AND EMPLOYEE PROTECTION	
0.	a.	Set Up Appropriate Illumination	11
	с.	for Workplace	
	b.	Set Up Appropriate Sanitation for Job	o Site
	с.	Understand Responsibility for Providi	
	0.	Personal Protective Equipment (Cont	
		Responsibilities)	
	d.	Provide Employee Protection in Tren	ches and
		Excavations	
	e.	Prepare Emergency Action Plans	
	f.	Ensure Safety Training is Conducted	when
		Needed	
	g.	Ensure Adequate Ventilation is Availa	able for
	3	Employees	
	h.	Ensure First Aid Kit is Available per N	IIOSHA
		Requirements	
		and the second	

psi

i.	Follow MIOSHA Guidelines to Protect
	Employees and the General Public from
	Falling-Object Hazards
j.	Ensure Personal Protective Equipment is Used
	Correctly
k.	Install Signs, Signals, and Barricades as
	Required by MIOSHA
- I.	Use All Tools and Equipment in Accordance
	with MIOSHA Requirements
m.	Utilize Ladders in Accordance with MIOSHA
	Requirements
n.	
	with MIOSHA Requirements
0.	Follow MIOSHA Requirements for Work
0.	Around Toxic Materials
p.	Perform Appropriate Material Cleanup and
ρ.	Disposal
	Provide Fall Protection
Ч.	

## Suggested Study Materials

The study materials listed here should be helpful to candidates preparing for the M&A Contractor examination.

Except for the Michigan Laws, Rules, Codes and Standards, neither the Department nor PSI endorses any of the materials listed. However, we try to ensure that the references are currently available and consist of recognized industry standards.

If the answer to a specific examination question could differ because of conflicting information contained in the suggested study materials, the legal requirement, such as a law, regulation, board or commission rule, or building code, takes precedence over (overrides) any other reference. If two legal requirements appear to conflict, the Michigan specific law, regulation, board or commission rule, or building code, takes precedence over the national one. Information from the suggested study materials listed here takes precedence over information from all other sources or persons.

This is only a sample of the available reference materials that contain information about the professions. These materials contain neither all of the general trade knowledge required to be competent in any specific area nor all of the information on which you will be tested. Also, please be aware that reference materials may go out of print or be otherwise unavailable.

Please contact a library, community college, currently practicing builder or contractor, Code enforcement agency, or other specialists in the profession for additional information or reference material.

These examinations are CLOSED BOOK, so the following reference materials suggested as study resources are not allowed in the examination center.

- Michigan Residential Code, 2009, Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes and Fire Safety, Office of Management Services, PO Box 30255, Lansing, MI 48909, (517) 241-9313, www.michigan.gov/bccfs
- Michigan Occupational Safety and Health Act 154 of 1974 as amended, and Administrative Rules for All Industries, Department of Licensing and Regulatory Affairs, MIOSHA Standards Division, P.O. Box 30643, Lansing, MI 48909, (517) 322-1845. Price: Free.
  All MIOSHA standards may be printed from the MIOSHA web site: www.michigan.gov/mioshastandards
- Gypsum Construction Handbook, 2000, ISBN: 0-9636862-2-4, United States Gypsum Company (USG), 125 S. Franklin Street, Chicago, IL 60606, (800) 874-4968, http://www.usg.com
- Carpentry and Building Construction, 10<sup>th</sup> Edition, John L. Feirer and Mark D. Feirer, ISBN: 0-07-822702-X, Glencoe/McGraw-Hill, PO Box 543, Blacklick, OH 43004, (800) 334-7344, www.glencoe.com
- Finish Carpentry : A Complete Interior & Exterior Guide, 1995, William P. Spence, ISBN 0-8069-0700-2, The Sterling Publishing Company, Inc., 387 Park Avenue South, New York, NY 10016, (212) 532-7160, www.sterpub.com
- The Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses, 2003, Wood Truss Council of America & the Truss Plate Institute, One WTCA Center, 6300 Enterprise Lane, Madison, WI 53719, (608) 274-4849, www.woodtruss.com
- Building Trades Printreading Part 2 Residential and Light Commercial Construction, Fourth Edition, 2004, Thomas E. Proctor, ISBN: 0-8269-0425-4, American Technical Publishers, Inc., 1155 W. 175th St., Homewood, IL 60430-4600, (800) 323-3471, www.go2atp.com



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