STATE OF MICHIGAN

MASONRY

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

Тор	TOPIC INFORMATION # OF ITEMS				
1.	SITE LAYOUT (INCLUDES SURVEYS,				
	SETBACKS AND EASEMENTS, 4				
	ELEVATIONS, SQUARING, AND				
	Benchmarks)				
	a.	Lay Out Site			
	b.	Establish Work Heights, Dimensio Other Spacing Requirements	ons,	and	
	c.	Lay Out the Wall for Bonds and F	leigh	nt	
	d.	Evaluate Bearing Capacity	Ŭ		
2.	PERMITS AND INSPECTIONS				
	a.	Obtain Project Approval (Includi	ng	2	
	b.	Zoning) Pull Appropriate Permits			
	с.	Submit Plans as Required			
	d.	Get Inspections			
3.	MISS				
	a.	Contact MISS DIG		2	
	b.	Contact Utility Companies			
4.	Plan	READING AND ESTIMATING			
	a.	Review Project Plans to		3	
		Determine Spacing, Masonry			
	b.	Units, Materials, etc. Determine Types of Mortars and	Othe	er.	
		Materials Needed for a Project	ound		
	с.	Estimate Material Needs and Tak			
	d.	Determine Type of Detail Work R			
5.	e. Determine Type of Accessories Required GENERAL KNOWLEDGE AND THEORY		reu		
э.	a.	Apply General Knowledge of		4	
	ч.	Masonry Materials, Tools,			
		Principles, and Techniques			
	b.	Utilize Authoritative Masonry Res Consult on Products, Materials, 1			
		and Other Facets of the Masonry	Tra	de	
	с.	Handle and Store Materials in a S			
6.	Mort	ARS AND GROUTS			
	a.	Select Type of Mortar to be Used		4	
	b.	Select Mortar Ingredients,			
	C.	Additives Operate Mortar Mixer or Other M	ixin	Tools	
1	d.	Select Appropriate Grout for the			
1		Application to be Performed			
	е.	Apply Grouts			

	f.	Mix and Apply Stucco	
7.	Masc	NRY ACCESSORIES	
	a.	Select Location for Flashing and Weeps	4
	b.	Establish Maximum Spans for Expansi Control Joints	on and
	C.	Verify Appropriate Type of Vapor Bar Present and Installed Correctly	rier is
	d.	Install Flashing and Weeps as Require Project	ed by
	e.	Install Masonry Unit Insulation/Loose Insulation or Foam as Needed	-Fill
8.	INSTA	LLATION	
	а.	Install Clay Masonry Units	12
	b.	Install Concrete Masonry Units	
	с.	Install Glass Block	
	d.	Install Stone (Assume Full Bed-Depth)	
	e.	Install Cultured Stone/Synthetic/Thin	n Venee
	f.	Install Unit Masonry Assembly	
	g.	Build Retaining Wall	
	h.	Install Masonry Fireplaces	
	i.	Install Foundation Walls	
	j.	Perform Specialized Installations	
	k.	Install ICF Insulated Concrete Forms	
	I.	Cut and Drill Masonry Units as Neede	d
9.	MASC	NRY ANCHORAGE AND	
	REINF	ORCEMENTS	4
	a.	Select Appropriate Anchorage and	
		Reinforcing Method	
	b.	Install Continuous Joint Reinforcing	
	с.	Install Flexible Masonry Ties	
	d.	Install Masonry Veneer Ties	
	e.	Install Reinforcing Bars	
	f.	Install Rigid Masonry Ties	
	g.	Install Stone Anchors	
10.	REST	ORATION AND CLEANING	
	a.	Adequately Protect Adjacent	4
		Vegetation and Landscaping from	
		Chemical Damage	-
	b.	Perform Unit Masonry Replacement,	
		Restoration, or Repair	
	с.	Perform Stone Replacement, Restora	tion or
	U.		
	0.	Repair	

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	_	Danfama Briali Olaanina		
	е.	Perform Brick Cleaning		
		f. Perform Terra Cotta Cleaning		
-	g. Perform Stone Cleaning			
11.	SAFE	TY AND EMPLOYEE PROTECTION		
	а.	Set Up Appropriate Illumination 7		
		for Workplace		
	b. Set Up Appropriate Sanitation for Job Site			
	с.	Understand Responsibility for Providing		
		Personal Protective Equipment (Contractor's		
		Responsibilities)		
	d.	Provide Employee Protection in Trenches and		
		Excavations		
	e.	Prepare Emergency Action Plans		
	f.	Ensure Safety Training is Conducted when		
		Needed		
	g.	Ensure Adequate Ventilation is Available for		
	Employees			
	h.	Ensure First Aid Kit is Available per MIOSHA		
		Requirements		
	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.	Assemble and Utilize Scaffolds in Accordance		
		with MIOSHA Requirements		
	0.	Follow MIOSHA Requirements for Work		
		Around Toxic Materials		
	p.	Perform Appropriate Material Cleanup and		
		Disposal		
	q.	Maintain Material Safety Data Sheets (MSDS)		
	r.	Practice Caution when Handling and Storing		
		Materials		
	S.	Provide Fall Protection		

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



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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, Michigan 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
- Modern Masonry Brick, Block, Stone, 2010 (Seventh Edition), Clois E. Kicklighter, ISBN: 1-56637-962-8, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477, (800) 323-0440, www.goodheartwillcox.com