Masonry Contractor Technical Programs
Gain a deeper understanding of ASTM and TMS requirements.

Workshops will be held from 2:00 p.m. to 4:00 p.m. at Country Inn and Suites in Lansing, MI and BAC Local #2 in Warren, Michigan.

Lansing Seminar to be held at:
Country Inn and Suites
6511 Centurion Dr
Lansing MI 48917

Warren Training Center
BAC Local #2
21031 Ryan Road
Warren, MI 48091

September 2019
Grouting and Reinforcing Masonry - Mariano DiGiovanni & Dan Zechmeister

The presentation will cover the minimum requirements stipulated in TMS 602-13 Specification for Masonry Structures for grouting and reinforcing masonry. We will examine typical specification requirements and ASTM standards. The information presented in this workshop focuses on the placement of steel reinforcement and grouting for hollow unit masonry for bricklayers.

Time: 2:00 p.m.- 4:00 p.m.
Lansing, September 11, 2019:
https://www.eventbrite.com/e/grouting-lansing-contractor-tech-pgrm-tickets-69998861479

Warren, September 16, 2019:
https://www.eventbrite.com/e/grouting-warren-contractor-tech-pgrm-tickets-70034315523

October 2019
Mix Design & Testing - Representative from St. Mary’s Cement or Redi Mix

In a recent survey by the Portland Cement Association, Mortar and Grout for Masonry Construction is sampled and tested improperly 89% and 56% of the time, respectively.

This presentation will provide guidance regarding:

- Proper use of Specification ASTM C270 and Test Method ASTM C780 for evaluating masonry mortar produced in the laboratory and at the construction site.

Time: 2:00 p.m.- 4:00 p.m.
Lansing, October 17, 2019:
https://www.eventbrite.com/e/mix-design-testing-lansing-contractor-tech-pgrm-tickets-70042058683

Warren, October 10, 2019:
https://www.eventbrite.com/e/mix-design-testing-warren-contractor-tech-pgrm-tickets-70043711627
November 2019
Air Barriers | Hot and Cold Weather – ABAA- Air Barrier Association of America & Mariano DiGiovanni

Air, Vapor and Moisture Barriers are common on masonry buildings. This presentation will discuss the basic properties, application issues and Job-Site Concerns of all three of these barrier systems.

The Hot and Cold Weather presentation will cover the current building code requirements for construction and grouting of masonry in hot and cold weather conditions. Construction requirements, protection of completed work and material storage requirements will be covered. Safe handling of heating equipment will be discussed. The session will conclude with a question and answer period.

Time: 2:00 p.m.- 4:00 p.m.

December 2019
Flashing and Insulation Installation - Mariano DiGiovanni & Dan Zechmeister

The presentation will cover base of wall flashing details for inside and outside corners and end dams. We will look at proper methods to install flashing materials, how to terminate the top of the flashing, and how to construct watertight corners

Time: 2:00 p.m.- 4:00 p.m.

January 2020
Movement Joints – Maria Alvaro

Understand the differential movement of clay and concrete masonry. Discuss the different types of movement joints necessary in masonry. Learn about the proper placement of movement joints in masonry wall systems.

Focus is on best practices for design and construction of expansion, control and movement joints to accommodate and/or restrict masonry material movement.

Time: 2:00 p.m.- 4:00 p.m.
February 2020

Cleaning – Doug Barron

Improper cleaning techniques or improper use of cleaning products can cause severe damage to new masonry. This class will cover the basics of cleaning masonry. Case studies of several examples will be presented.

Time: 2:00 p.m.- 4:00 p.m.

Lansing, February 20, 2020:
https://www.eventbrite.com/e/february-cleaning-lansing-contractor-tech-pgrm-tickets-70057426649

Warren, February 6, 2020:
https://www.eventbrite.com/e/february-cleaning-warren-contractor-tech-pgrm-tickets-70058746597

March 2020

Safety – Howard Hipes: Lansing | Tom Ward: Warren

This presentation will cover the basic requirements for wall bracing, restricted zones and scaffolding. An overview of the regulations and contractor / owner requirements for submitting wall bracing plans and establishing restricting zones.

Time: 2:00 p.m.- 4:00 p.m.

Lansing, March 4, 2020:

Warren, March 25, 2020:

April 2020

Code vs. Spec – Scott Walkowicz

Code vs Spec: Did you know that the masonry ‘code’ is actually two documents and that they’re written for different parties to construction? This session looks at the differences between the masonry code and the minimum masonry specification that goes with it. Topics will include things like who each document is written to, what requirements are in each for designers and constructors and why contractors should know both what is required of them and of the project designers.

Time: 2:00 p.m.- 4:00 p.m.

Lansing, April 8, 2020:
https://www.eventbrite.com/e/code-vs-spec-lansing-contractor-tech-pgrm-tickets-70188530785

Warren, April 15, 2020:
https://www.eventbrite.com/e/code-vs-spec-warren-contractor-tech-pgrm-tickets-70276287267
May 2020

New Technology – Tom Cuneio and Dan Zechmeister

There are four emerging software packages from the BIM-M effort; Masonry iQ Design, Direct Design, Masonry Unit Database, and Masonry iQ Build.

- **Masonry iQ Design** – Masonry iQ Design, now available, is a smart new Revit plug-in that studies modularity, properly bond corners, see cuts at openings, create masonry patterns, generate sweeps and draws masonry sections.

- **Direct Design** – Direct Design, now available, is an accelerated masonry building design software, which is both economical and very fast. One of the most exciting and useful outputs is the wall elevations with all the steel reinforcement shown, size and spacing.

- **Masonry Unit Database (MUD)** - The database, now online, is intended to provide designers and BIM users standardized data for their models.

- **Masonry iQ Build** – Masonry iQ Build, under development, is a solution for mason contractors to easily model projects in the beginning as a Revit plug-in and then eventually have its own standalone platform custom built for masonry needs.
  - **Masonry iQ Build deliverables**
    - Accurate unit counts (CadBlox style)
    - Full re-bar modeling
      - Re-bar quantities
      - Lap splices, hooks, etc.
      - Grout lifts
      - Re-bar shop drawings (fully detailed)
    - Clash detection and coordination with other trades
    - Masonry Unit Database (MUD) integrated
    - Masonry iQ Design integrated
      - Place movement joints
      - Create custom patterns
    - Calculate R values and U factors
      - Provide guidelines to meet energy code

Time: 2:00 p.m.- 4:00 p.m.

**Lansing, May 6, 2020:**

**Warren, May 13, 2020:**