

Learning Objective:

Blockmakers Workshop® courses provide students with the knowledge and skills that they can apply immediately to make improvements in their plant(s) and in the quality of the products produced.

10–14 February • 15–19 September

Concrete Masonry Technology

This course covers all aspects of manufacturing concrete products and will benefit those beginning their careers as well as seasoned professionals. This interactive course takes place in the classroom, lab, and fully operational production facility housed at the World Center for Concrete Technology. Price: US \$1150

Topics:

- All about raw materials: cement, water, aggregate, admixtures, and pigments
- Conducting a sieve analysis, multi-aggregate blending, mix designs, and mixing sequence
- Concrete products production using student's mix designs
- Curing fundamentals

5–9 May

Advanced Concrete Masonry Technology*

The course features in-depth discussions, extensive instruction, and firsthand experience with testing and production. Course content is ideal for concrete technicians, quality control personnel, and advanced machine operators. Price: US \$1150

Topics:

- Best practices for mix designs, moisture compensation, batching sequence, quality control, and product testing
- Identifying the impact of mix moisture, gradations, cement content, curing and color load on unit strength, and color
- The cause and effect the material and mix quality has on overall machine operation and product quality. All machine types, including cam driven, servo driven, and Impact vibration are discussed.
- ASTM specifications for specialty products
- The use of recycled materials in concrete products production
- The benefits of confirming Bill of Materials (BOMs) and obtaining gradation reports from suppliers on a regular basis

13–17 October

Product Handling & Curing

This course focuses on the unique maintenance and troubleshooting required for product handling and curing equipment. This course will benefit those beginning their careers as well as seasoned professionals. Price: US \$1150

Topics:

- Adjustments, schematic print reading, and solid-state circuitry for E-Model and Multi-Spade Besser-Matic loader/unloaders, LSC and PTS handling systems, curing systems, depalleters, turnovers, splitters and semi-and fully automatic cubers
- Curing fundamentals and benefits

Visit wcct.net for current course information.

BLOCKMAKERS WORKSHOPS® 2025

22–24 July

Executive Session (3-day)

Tailored to upper management, course attendees will get an understanding of concrete materials technology and the operation of a block plant that will provide the knowledge they need to increase their effectiveness in their leadership positions. Price: US \$850

Topics:

- Raw materials, sieve analysis, mix designs, and adjusting for moisture content
- The production process for concrete masonry and hardscape units
- Insights into efficient plant operations and proactive maintenance

Bonus: Unique to the Executive Course

Participation in roundtable discussions with industry executives and professionals will provide perspectives on new products, current industry challenges, and opportunities

Note: The Executive Session does not qualify for Master Blockmaker® certification.

3–7 March • 6–10 October

Electronic Controls*

Students will learn advanced methods of electrical troubleshooting on a wide range of equipment including the Vibrapac, Besser-Matics, splitters, LSC systems, and cubers. Plant staff with all levels of experience will benefit from this course. Price: US \$1150

Topics:

- Applications for and troubleshooting of Allen-Bradley programmable controllers, including SLC 500-series and CompactLogix
- Wiring and schematic reading

Note: Block machines, Multi-Spade Besser-Matic loader/unloaders, and cubers are equipped with these controllers.

17–21 February • 22–26 September

Vibrapac®

Students will learn firsthand about the Vibrapac machine including adjustments, electronics, and basic electrical schematic print reading. Price: US \$1150

Topics:

- Proper machine adjustments and mold setup
- Systematic troubleshooting of mechanical and electrical malfunctions
- In-plant application of troubleshooting skills specifically for the Vibrapac

21–25 April

Advanced Vibrapac*

This course is a deep dive into the Vibrapac's mechanical and electrical operation and delves into advanced troubleshooting skills. The content of this course will benefit machine operators who have already taken the Vibrapac course. The new skills and an enhanced understanding of the process will elevate the student's confidence, improve their proficiency, and result in less downtime related to mold and height changes. Price: US \$1150

Topics:

- Extensive mechanical and electrical hands-on training during concrete products production
- Problem solving skills for addressing daily product quality issues
- Mold and height changes and adjustments: the mold and height change process will be reviewed and demonstrated. Students will demonstrate their understanding of the process by performing a mold and height change

Become a Master Blockmaker by completing 5 Blockmakers Workshops

Note: All Master Blockmaker applicants are now required to demonstrate competency in skills obtained from Blockmaker courses.

This will be done during the last day of the fifth eligible course.

*Prerequisite for these courses:

Advanced CMT: CMT required

Advanced Vibrapac: Vibrapac required

Electronic Controls: Vibrapac or Product Handling



750 Woodward Avenue, Alpena, MI 49707 USA
Register online at wcct.net

Visit wcct.net for current course information.

BLOCKMAKERS WORKSHOPS® 2025

JANUARY

SUN	MON	TUE	WED	THR	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY

SUN	MON	TUE	WED	THR	FRI	SAT
						1
2	3	4	5	6	7	8
9	Concrete Masonry Technology					15
16	Vibrapac®					22
23	24	25	26	27	28	

MARCH

SUN	MON	TUE	WED	THR	FRI	SAT
						1
2	Electronic Controls*					8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

APRIL

SUN	MON	TUE	WED	THR	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	Advanced Vibrapac**					26
27	28	29	30			

MAY

SUN	MON	TUE	WED	THR	FRI	SAT
				1	2	3
4	Advanced Concrete Masonry Technology*					10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

SUN	MON	TUE	WED	THR	FRI	SAT
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15	16	17	18	19	20	21
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29	30					

JULY

SUN	MON	TUE	WED	THR	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	Executive Session		25	26	
27	28	29	30	31		

AUGUST

SUN	MON	TUE	WED	THR	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

SEPTEMBER

SUN	MON	TUE	WED	THR	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	Concrete Masonry Technology					20
21	Vibrapac®					27
28	29	30				

OCTOBER

SUN	MON	TUE	WED	THR	FRI	SAT
			1	2	3	4
5	Electronic Controls*					11
12	Product Handling & Curing					18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

SUN	MON	TUE	WED	THR	FRI	SAT
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16	17	18	19	20	21	22
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30						

DECEMBER

SUN	MON	TUE	WED	THR	FRI	SAT
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			



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