WELCOME



Creating Effective Education & Industry Pathways for Construction, Maintenance & Energy Careers

Stephen Healy, NCCER Executive Director, Pearson



ONE MILLION...

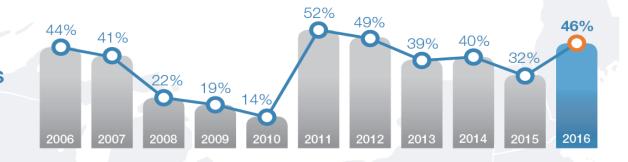


...is the deficit of skilled construction craft professionals needed through 2020 to support \$3.5 trillion in non-residential construction spending.*

* Source: "Industry Papers Support the Quest for Better Productivity", pg. 25-27 in "The Voice", Summer 2016 edition, official magazine of the Construction Users Roundtable.

HIGHLIGHTS FROM THE 2016/2017 U.S. TALENT SHORTAGE SURVEY

In the U.S., 46%
OF EMPLOYERS
are having
DIFFICULTY
FILLING JOBS



HARDEST JOBS TO FILL IN 2016



Skilled Trade Workers



Drivers



Representatives



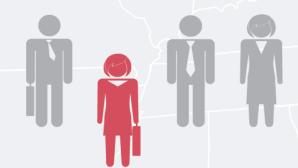
Teachers



Restaurant & Hotel Staff

For the seventh consecutive year, **SKILLED TRADES** vacancies are the **HARDEST JOBS TO FILL IN THE U.S.** And for the fifth consecutive

year, skilled trades are the HARDEST TO FILL GLOBALLY.



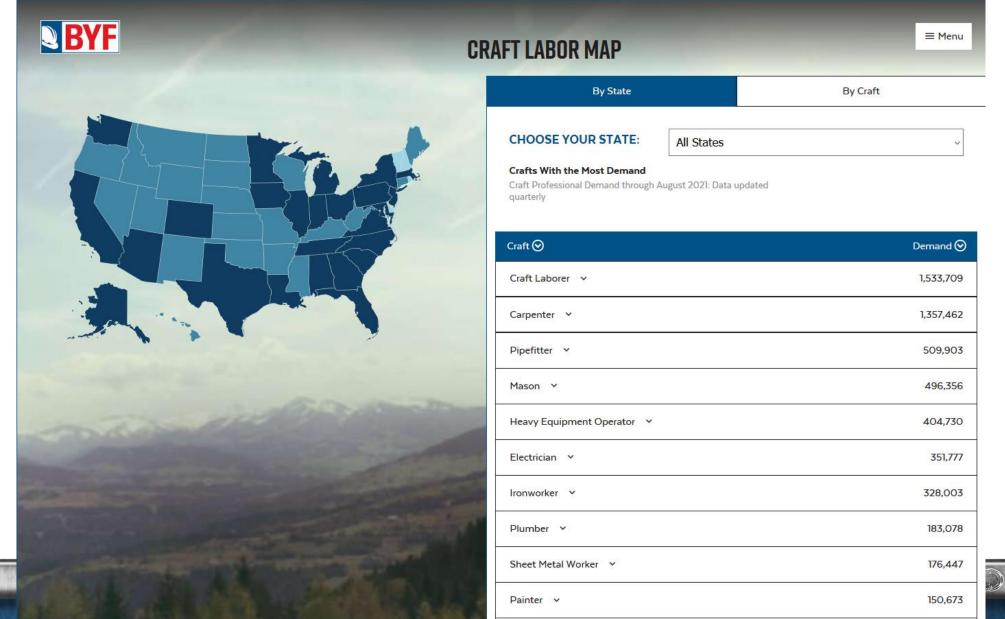
WHY JOBS AREN'T FILLED

TALENT SHORTAGES ARE
DRIVEN BY A LACK OF AVAILABLE
APPLICANTS — this reason is cited
by nearly a quarter of employers
as to why they cannot fill jobs.



CONSTRUCTION CRAFT DEMAND

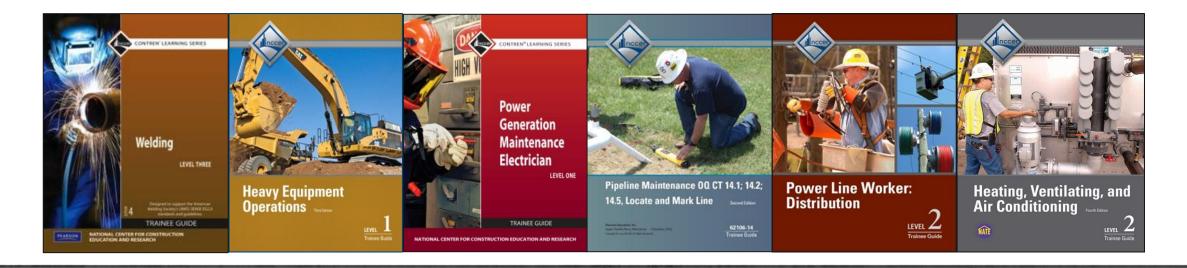




A WORLD OF CAREER OPPORTUNITY



- CONSTRUCTION New building, or, addition to existing structure
- MAINTENANCE Repair and upkeep of industrial and commercial facilities (power plants, refineries, paper mills, transportation infrastructure, etc.)
- ENERGY Construction and maintenance of electrical, gas and oil infrastructure







2018 ACTE REGION I CONFERENCE

Brad Kibbe – Executive Director



FL MASONRY APPRENTICE & EDUCATIONAL FOUNDATION

- O FOUNDED IN 2002
- O APPRENTICE TRAINING REPRESENTATIVE
 - MASONRY ASSOCIATION OF FLORIDA
- O ACCREDITED TRAINING SPONSOR FOR NCCER
 - HIGH SCHOOLS
 - **OFLORIDA DEPARTMENT OF CORRECTIONS**
 - **OAMI KIDS**
 - **OPRIVATE INDUSTRY**

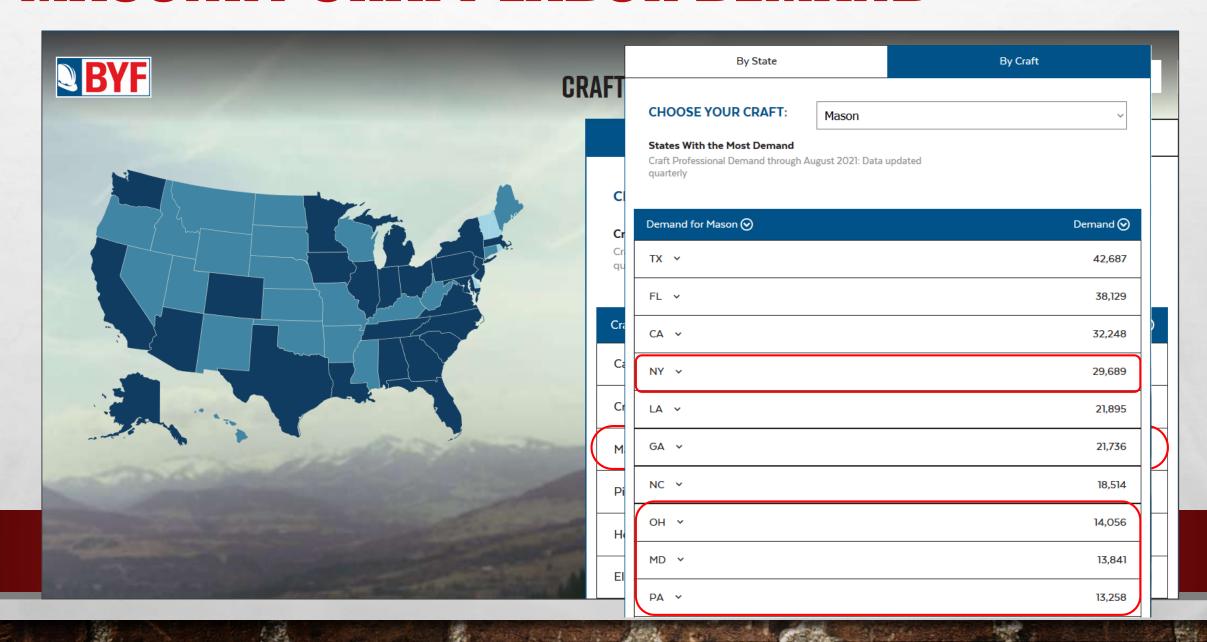




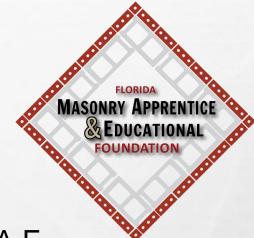
FL MASONRY PROJECTS



MASONRY CRAFT LABOR DEMAND



GOALS/INITIATIVES



- DEVELOP AND MANAGE APPRENTICE PROGRAMS FOR M.A.F.
- EXPRESS THE IMPORTANCE OF CONSTRUCTION EDUCATION IN FLORIDA
- BUILD STRONG RELATIONSHIPS WITH LEA'S AND ORGANIZATIONS
- CREATE CAREER CONSTRUCTION PATHWAYS FOR STUDENTS
- DEVELOP INDUSTRY APPROVED ASSESSMENTS AND CERTIFICATIONS

Apprenticeship Program Locations

Tallahassee Community College 444 Appleyard Drive Tallahassee, FL 32304

Titan Block Plant Ft. Pierce, FL. 34947

CEMEX Yard 9117 Florida Mining BLVD Tampa, FL 33634

Immokalee Technical College 508 North 9th Street Immokalee, FL 34142 Mid-Florida Tech 2900 West Oak Ridge Rd Orlando, Florida 32809

Atlantic Technical College 4700 Coconut Creek Parkway Coconut Creek, FL 33063

Manatee Technical College 6305 SR 70 East Bradenton, FL 34203

William Turner Technical School 10151 NW 19th Ave. Miami, FL 33147

Pinellas Technical College 901 34th Street South St. Petersburg, FL 33711



Contact the Florida Masonry Apprentice & Educational Foundation for additional details: www.masonryeducation.org

PRE-APPRENTICE PROGRAMS

- O HIGH SCHOOL CTE PROGRAMS
 - 116 ACTIVE CONSTRUCTION RELATED PROGRAMS
 - O 5168 SECONDARY STUDENTS TESTING ONLINE AS OF 4/12/18
 - O NCCER CURRICULUM AND ACCREDITED TRAINING SPONSOR
- OFLORIDA DEPARTMENT OF CORRECTION
 - 10 PROGRAMS IN FDC FACILITIES RE-ENTRY PROGRAMS
 - O 13 AMI KIDS/DJJ PROGRAMS IN THE SOUTHEAST
 - VARIOUS TRANSITION FACILITIES/ YOUTHBUILD PROGRAMS
- O PRIVATE COMPANY TRAINING



FMAEF – 2018 INITIATIVES

- APPLY TO BECOME AN NCCER ACCREDITED ASSESSMENT CENTER (AAC)
- DEVELOP AND IMPLEMENT YEAR 1 & 2 KNOWLEDGE AND PERFORMANCE EXAMS (NCCER & MCAA PARTNERSHIP)
- DEVELOP PRE-APPRENTICE PROGRAM TO FRONT LOAD YEAR 1 TRAINING
 - PILOT AT SELECT MAF APPRENTICE PROGRAMS
 - PILOT AT SELECT DEPARTMENT OF CORRECTIONS PROGRAMS
 - BUILD INTO ARTICULATION PROCESS
 - RECEIVED NCMA GRANT TO DEVELOP MASONRY ONLINE CURRICULUM

PRE-APPRENTICESHIP CURRICULUM

MASONRY RELATED TRAINING – 20 WEEK PROGRAM



YEAR 1 – TENDER/INSTALLER

NCCER - CORE AND MASONRY LEVEL1

- BASIC SAFETY / OSHA / FIRST AID
- CONSTRUCTION MATH
- COMMUNICATION / EMPLOYABILITY
- MEASUREMENT, DRAWING & SPECS
- MORTAR / MATERIAL HANDLING
- MASONRY UNITS & INSTALLATION
- RESIDENTIAL MASONRY

- 240 HOURS OF CLASSROOM AND LAB TRAINING
- DIRECTLY ARTICULATED TO APPRENTICESHIP
- JOB PLACEMENT AFTER COMPLETED TRAINING
- OSHA, FORKLIFT, FIRST-AID, CPR, SCAFFOLD
- END OF LEVEL WRITTEN AND PRACTICAL EXAM

www.masonryeducation.org

APPRENTICESHIP CURRICULUM

MASONRY RELATED TRAINING



YEAR 1 – TENDER/INSTALLER

NCCER - CORE AND MASONRY LEVEL 1

- BASIC SAFETY / OSHA / FIRST AID
- CONSTRUCTION MATH
- COMMUNICATION / EMPLOYABILITY
- MEASUREMENT, DRAWING & SPECS
- MORTAR / MATERIAL HANDLING
- MASONRY UNITS & INSTALLATION
- RESIDENTIAL MASONRY

YEAR 2 – BLOCK INSTALLER

NCCER - MASONRY LEVELS 1 & 2

- REINFORCED MASONRY
- OPENINGS & METALWORK
- ADVANCED LAYING TECHNIQUES
- EFFECTS OF CLIMATE ON MASONRY
- INSPECTION & QUALITY CONTROL
- ELEVATED MASONRY
- SPECIALIZED MATERIALS & TECHNIQUES

YEAR 3 - MASON

NCCER - MASONRY LEVELS 2 & 3

- REPAIR & RESTORATION
- COMMERCIAL DRAWINGS
- ESTIMATING
- ELEVATED MASONRY
- STONE MASONRY
- SITE LAYOUT MEASUREMENT & LEVELING
- FUNDAMENTALS OF CREW LEADERSHIP

ARTICULATION

Levels Completed for Credit:

NCCER Core Curriculum = 75 hours (articulated credit)

NCCER Core + Masonry 1 = 150 hours related training (articulated credit)

NCCER Core + Masonry 1 + 2 = 225 hours related training (articulated credit)

NCCER Core + Masonry 1, 2 + 3 = 300 hours related training (articulated credit)

Certification Testing for Credit:

FMAEF Level 1 certification exam = 150 hours related training (articulated credit)

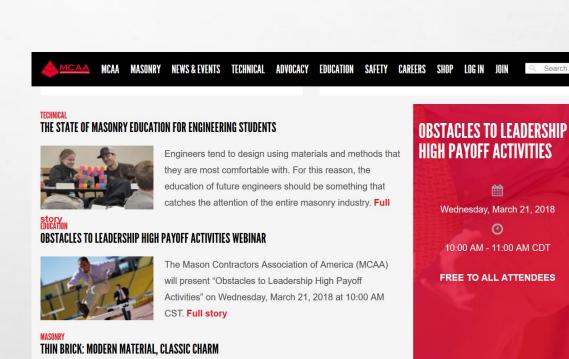
FMAEF Level 2 certification exam = 300 hours related training (articulated credit)

www.masonryeducation.org



MCAA – A TRADE ASSOCIATION

- 944 MEMBER COMPANIES
- 726 MASON CONTRACTOR COMPANIES
- 171 SUPPLIERS
- 22 INSTRUCTORS
- 2 STUDENTS
- 5 ENGINEERS



Thin brick has an easy installation with a traditional look.

MASONRY takes a look at the different specs and installation process. Read at MASONRY Magazine

Register

MCAA POLL

PROUD SUPPORTER OF SKILLS USA



Olivia Bruening, RiverOak Technical College 1st Place, 2017, FL SkillsUSA Masonry Contest.

TAKEAWAYS AND RESOURCES...

- CHAPTERS OF THE MASONRY CONTRACTORS ASSOCIATION OF AMERICA
- BUILD YOUR FUTURE CONSTRUCTION CAREER RESOURCES
- NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH (NCCER)
- **SKILLSUSA**
- 2018 NCCER CURRICULUM CATALOG

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PPP QUESTIONS PPP





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