

## Construction Trades and Management Scope, Sequence, PBGR

### Program Proficiencies:

Vermont State approved [Program proficiencies](#)

| Unit Title                             | Lessons Within Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PBGR's (all areas - content, math, english, science, history, elective, etc. put N/A if not relevant)                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCCER - CORE</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |
| Q1 - Build Your Future in Construction | <ul style="list-style-type: none"> <li>★ Overview of the Construction Industry <ul style="list-style-type: none"> <li>○ What is Construction?</li> <li>○ History of Construction</li> </ul> </li> <li>★ Benefits of a Career in Construction <ul style="list-style-type: none"> <li>○ Making a Difference</li> <li>○ Construction Career Benefits and Opportunities</li> </ul> </li> <li>★ Construction Craft Careers <ul style="list-style-type: none"> <li>○ Construction Industry Sectors</li> <li>○ Types of Construction Careers</li> </ul> </li> <li>★ Starting Your Construction Career <ul style="list-style-type: none"> <li>○ Career and Technical Education</li> <li>○ Craft Training and Apprenticeships</li> <li>○ Community Colleges and Universities</li> </ul> </li> </ul> | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d      |
| Q1 - Basic Safety                      | <ul style="list-style-type: none"> <li>★ Safety and Hazard Recognition <ul style="list-style-type: none"> <li>○ Incidents and Accidents</li> <li>○ Costs</li> </ul> </li> <li>★ Incident and Accident Causes <ul style="list-style-type: none"> <li>○ Failure to Communicate</li> <li>○ At Risk Work Habits</li> <li>○ Alcohol and Drug Abuse</li> <li>○ Lack of Skill</li> <li>○ Intentional Acts</li> <li>○ Unsafe Acts</li> <li>○ Rationalizing Risk</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                             | <b>Program proficiencies 1 abc</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |

## Construction Trades and Management Scope, Sequence, PBGR

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                               |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | <ul style="list-style-type: none"> <li>○ Unsafe Conditions</li> <li>○ Poor Housekeeping</li> <li>○ Management System Failure</li> <li>★ Hazard Recognition, Evaluation, and Control <ul style="list-style-type: none"> <li>○ Hazard Recognition</li> <li>○ Job Safety Analysis (JSA) and Task Safety Analysis (TSA)</li> <li>○ Risk Assessment</li> <li>○ Reporting Injuries, Incidents, and Near Misses</li> <li>○ Safety Data Sheets</li> </ul> </li> <li>★ Elevated Work/Fall Protection <ul style="list-style-type: none"> <li>○ Fall Types and Hazards</li> <li>○ Fall Arrest</li> <li>○ Ladders and Stairs</li> <li>○ Scaffolds</li> </ul> </li> <li>★ Struck by and in-Between Hazards <ul style="list-style-type: none"> <li>○ Struck-By Hazards</li> <li>○ Caught-In and In-Between Hazards</li> </ul> </li> <li>★ Energy Release Hazards <ul style="list-style-type: none"> <li>○ Electrical Safety Guidelines</li> <li>○ Lockout/Tagout Requirements</li> </ul> </li> <li>★ Personal Protective Equipment (PPE) <ul style="list-style-type: none"> <li>○ PPE Items</li> <li>○ Respiratory Hazards and Protection</li> </ul> </li> <li>★ Job-Site Hazards <ul style="list-style-type: none"> <li>○ Job-Site Exposure Hazards</li> <li>○ Environmental Extremes</li> <li>○ Hot Work Hazards</li> <li>○ Fire Hazards and Fire Fighting</li> <li>○ Confined Spaces</li> </ul> </li> </ul> |                                                                                                                                                               |
| Q1-4 - Introduction to Construction Math | <ul style="list-style-type: none"> <li>★ Whole Numbers <ul style="list-style-type: none"> <li>○ Place Values of Whole Numbers</li> <li>○ Adding and Subtracting Whole Numbers</li> <li>○ Multiplying and Dividing Whole Numbers</li> </ul> </li> <li>★ Fractions <ul style="list-style-type: none"> <li>○ Equivalent Fractions and Lowest Common Denominators</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |

## Construction Trades and Management Scope, Sequence, PBGR

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <ul style="list-style-type: none"> <li>○ Multiplying and Dividing Whole Numbers</li> <li>○ Improper Fractions and Lowest Common Denominators</li> <li>○ Improper Fractions and Mixed Numbers</li> <li>○ Adding and Subtracting Fractions</li> <li>○ Multiplying and Dividing Fractions</li> <li>★ Decimal System <ul style="list-style-type: none"> <li>○ Decimals</li> <li>○ Adding, Subtracting, Multiplying, and Dividing Decimals</li> <li>○ Converting decimals, Fractions and Percentages</li> </ul> </li> <li>★ Measuring Length <ul style="list-style-type: none"> <li>○ Reading English and Metric Rulers</li> <li>○ The Measuring Tape.</li> </ul> </li> <li>★ Metric and Inch Pound Measurement Systems <ul style="list-style-type: none"> <li>○ Units of Length Measurement</li> <li>○ Units of Weight Measurement</li> <li>○ Units of Volume Measurement</li> <li>○ Temperature Units</li> </ul> </li> <li>★ Introduction to Geometry <ul style="list-style-type: none"> <li>○ Angles</li> <li>○ Shapes</li> <li>○ Calculating the Area of Shapes</li> <li>○ Volume of Three-Dimensional Shapes</li> </ul> </li> </ul> |                                                                                                                                                           |
| Q1 - Introduction to Hand Tools | <ul style="list-style-type: none"> <li>★ Common Hand Tools <ul style="list-style-type: none"> <li>○ Hammers and Demolition Tools</li> <li>○ Chisels and Punches</li> <li>○ Screwdrivers</li> <li>○ Wrenches</li> <li>○ Pliers and Wire Cutters</li> </ul> </li> <li>★ Measurement and Layout Tools <ul style="list-style-type: none"> <li>○ Rules and Other Measuring Tools</li> <li>○ Levels and Layout Tools</li> </ul> </li> <li>★ Other Common Hand Tools <ul style="list-style-type: none"> <li>○ Saws</li> <li>○ Clamps</li> <li>○ Files and Utility Knives</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |

## Construction Trades and Management Scope, Sequence, PBGR

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <ul style="list-style-type: none"> <li>○ Shovels and Picks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                           |
| Q1/Q2 - Introduction to Power Tools        | <ul style="list-style-type: none"> <li>★ Power Drills/Drivers               <ul style="list-style-type: none"> <li>○ Basic Power Tool Safety Guidelines</li> <li>○ Types of Power Drills/Drivers</li> <li>○ Hammer Drills and Impact Drivers</li> <li>○ Pneumatic Drills and Impact Drivers</li> </ul> </li> <li>★ Power Saws               <ul style="list-style-type: none"> <li>○ Circular Saws</li> <li>○ Jigsaws and Reciprocating Saws</li> <li>○ Portable Band Saws</li> <li>○ Miter and Cutoff Saws</li> <li>○ Table Saws</li> </ul> </li> <li>★ Grinders and Oscillating Multi Tools               <ul style="list-style-type: none"> <li>○ Grinders</li> <li>○ Grinder Attachments and Accessories</li> <li>○ Oscillating Multi-Tools</li> </ul> </li> <li>★ Miscellaneous Power Tools               <ul style="list-style-type: none"> <li>○ Power Nailers</li> <li>○ Power Nailer Safety and Maintenance</li> <li>○ Operating Power Nailers</li> <li>○ Hydraulic Jacks</li> </ul> </li> </ul> | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |
| Q2 - Introduction to Construction Drawings | <ul style="list-style-type: none"> <li>★ Construction Drawings and Their Components               <ul style="list-style-type: none"> <li>○ Basic Components of Construction Drawings</li> <li>○ Drawing Elements</li> <li>○ Dimensions and Drawing Scale</li> <li>○ Measuring Scales</li> <li>○ Six Types of Construction Drawings</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |
| Introduction to Basic Rigging              | <ul style="list-style-type: none"> <li>★ Basic Rigging Equipment               <ul style="list-style-type: none"> <li>○ Slings</li> <li>○ Sling Inspection</li> <li>○ Rigging Hardware</li> <li>○ Hoists</li> <li>○ Hitches</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |

**Construction Trades and Management  
Scope, Sequence, PBGR**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q2 - Basic Communication Skills        | <ul style="list-style-type: none"> <li>★ Communication <ul style="list-style-type: none"> <li>○ The Communication Process</li> <li>○ Active Listening on the Job</li> <li>○ Speaking on the Job</li> </ul> </li> <li>★ Reading and Writing <ul style="list-style-type: none"> <li>○ The Importance of Reading and Writing Skills</li> <li>○ Reading on the Job</li> <li>○ Writing on the Job</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                               | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |
| Q2/3 - Basic Employability Skills      | <ul style="list-style-type: none"> <li>★ Opportunities in the Construction Industry <ul style="list-style-type: none"> <li>○ The Construction Business</li> <li>○ Entering the Construction Workforce</li> </ul> </li> <li>★ Critical Thinking and Problem Solving <ul style="list-style-type: none"> <li>○ Critical Thinking and Barriers</li> <li>○ Solving Problems Using Critical Thinking</li> <li>○ Planning and Scheduling Problems</li> </ul> </li> <li>★ Relationship and Social Skills <ul style="list-style-type: none"> <li>○ Personal and Social Skills</li> <li>○ Conflict Resolution</li> <li>○ Giving and Receiving Criticism</li> <li>○ Social Issues in the Workplace</li> <li>○ Teamwork and Leadership</li> </ul> </li> </ul> | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |
| Q2 - Introduction to Material Handling | <ul style="list-style-type: none"> <li>★ Material Handling <ul style="list-style-type: none"> <li>○ Material Handling Basics</li> <li>○ Material Handling Safety</li> <li>○ Knots for Material Handling</li> </ul> </li> <li>★ Material Handling Equipment <ul style="list-style-type: none"> <li>○ Non-Motorized Material Handling Equipment</li> <li>○ Motorized Material Handling Equipment</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                             | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |

## Construction Trades and Management Scope, Sequence, PBGR

| GENERAL CARPENTRY 6th Edition       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                          |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optional - Orientation to the Trade | <ul style="list-style-type: none"> <li>★ Career and Entrepreneurial Opportunities               <ul style="list-style-type: none"> <li>○ Formal Construction Training                   <ul style="list-style-type: none"> <li>■ Apprenticeship Program</li> <li>■ Youth Apprenticeship Program</li> <li>■ Apprenticeship Standards</li> <li>■ What to Expect from a Contractor</li> <li>■ What to Expect from a Training Program</li> <li>■ What to Expect from the Apprenticeship Committee</li> </ul> </li> </ul> </li> <li>★ Carpenter Skills, Responsibilities, and Characteristics               <ul style="list-style-type: none"> <li>○ Carpenter Skills</li> <li>○ Carpenter Responsibilities                   <ul style="list-style-type: none"> <li>■ Willingness to Take Responsibility</li> <li>■ Rules and Regulations</li> <li>■ Tardiness and Absenteeism</li> </ul> </li> <li>○ Carpenter Characteristics                   <ul style="list-style-type: none"> <li>■ Professionalism</li> <li>■ Honesty</li> <li>■ Loyalty</li> <li>■ Willingness to Learn</li> <li>■ Willingness to Cooperate</li> <li>■ Positive Attitude</li> </ul> </li> </ul> </li> <li>★ Skills USA               <ul style="list-style-type: none"> <li>○ Program, Curriculum, and SkillsUSA Championships</li> <li>○ Membership                   <ul style="list-style-type: none"> <li>■ The Value for Students</li> <li>■ The Value for the Classroom and School</li> </ul> </li> <li>○ National Program of Work Standards                   <ul style="list-style-type: none"> <li>■ Chapter Activity Planner</li> <li>■ Chapter Elections and Training</li> <li>■ Chapter Meetings</li> </ul> </li> <li>○ Safety in the Construction Industry                   <ul style="list-style-type: none"> <li>■ OSHA Outreach Training Program</li> <li>■ Job Hazard Analysis (JHA)</li> </ul> </li> </ul> </li> <li>★ Safety in the Construction Industry</li> </ul> | <p><b>Program proficiencies:</b><br/> <b>Math:</b>1-a,b,c 2-c<br/> <b>English:</b>1-b,d,g 2-b,e3<br/> <b>History:</b>1-a,d 2-a 5-a<br/> <b>Science:</b>1-e,j,k 2-c,d</p> |

## Construction Trades and Management Scope, Sequence, PBGR

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                          |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Optional - Building Materials, Fasteners, and Adhesives</p> | <ul style="list-style-type: none"> <li>★ Building Materials and Their Uses <ul style="list-style-type: none"> <li>○ Hardwoods and Softwoods <ul style="list-style-type: none"> <li>■ Lumber Cutting</li> </ul> </li> <li>○ Lumber Defects <ul style="list-style-type: none"> <li>■ Moisture and Warping</li> </ul> </li> <li>○ Lumber and Grading <ul style="list-style-type: none"> <li>■ Grading Terms</li> <li>■ Classification of Manufacturing Defects</li> <li>■ Abbreviations</li> </ul> </li> <li>○ Treated Lumber</li> <li>○ Plywood <ul style="list-style-type: none"> <li>■ Plywood Panel Sizes</li> <li>■ Grading for Softwood Construction Plywood</li> <li>■ Plywood Glues</li> <li>■ Plywood Cores</li> <li>■ Face Veneers</li> <li>■ Plywood Grades</li> </ul> </li> <li>○ Hardboard</li> <li>○ Particleboard</li> <li>○ High-Density Overlay (HDO) and Medium Density Overlay (MDO)</li> <li>○ Mineral Fiberboards</li> <li>○ Engineered Lumber Products <ul style="list-style-type: none"> <li>■ Laminated Veneer Lumber (LVL)</li> <li>■ Parallel Strand Lumber (PSL)</li> <li>■ Laminated Strand Lumber (LSL)</li> </ul> </li> <li>○ Wood I-Beams</li> <li>○ Glued Laminated Lumber (GlueLam)</li> <li>○ Concrete and Concrete Materials <ul style="list-style-type: none"> <li>■ Portland Cement</li> <li>■ Aggregates for Concrete</li> <li>■ Water for Concrete</li> <li>■ Admixtures for Concrete</li> </ul> </li> <li>○ Concrete Masonry Unit Construction</li> <li>○ Steel Framing Materials</li> </ul> </li> <li>★ Safety Precautions with Building Materials</li> </ul> | <p><b>Program proficiencies:</b><br/> <b>Math:</b>1-a,b,c 2-c<br/> <b>English:</b>1-b,d,g 2-b,e3<br/> <b>History:</b>1-a,d 2-a 5-a<br/> <b>Science:</b>1-e,j,k 2-c,d</p> |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Construction Trades and Management Scope, Sequence, PBGR

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <ul style="list-style-type: none"> <li>○ General Safety</li> <li>○ Wood Product Safety</li> <li>○ Concrete Safety</li> <li>○ Steel Product Safety</li> <li>★ Handling and Storing Building Materials <ul style="list-style-type: none"> <li>○ Material Handling Basics <ul style="list-style-type: none"> <li>■ Pre-Task Planning</li> <li>■ Personal Protective Equipment</li> <li>■ Proper Lifting Procedures</li> </ul> </li> <li>○ Handling and Storing Wood Products <ul style="list-style-type: none"> <li>■ Plywood Storage</li> </ul> </li> <li>○ Handling and Storing Concrete Products</li> <li>○ Handling and Storing Steel Products</li> </ul> </li> <li>★ Calculate Lumber, Panel, and Concrete Quantities <ul style="list-style-type: none"> <li>○ Calculate Lumber Quantities</li> <li>○ Calculate Panel Quantities</li> <li>○ Estimating Concrete Volume <ul style="list-style-type: none"> <li>■ Rectangular Volume Calculations</li> <li>■ Example Calculation Using the Formula</li> <li>■ Cylindrical Volume Calculations</li> <li>■ Example Calculations of Cylindrical Volume</li> </ul> </li> </ul> </li> <li>★ Fasteners, Anchors, and Adhesives <ul style="list-style-type: none"> <li>○ Nails <ul style="list-style-type: none"> <li>■ Types of Nails</li> </ul> </li> <li>○ Staples <ul style="list-style-type: none"> <li>■ Types of Staples</li> </ul> </li> <li>○ Screws <ul style="list-style-type: none"> <li>■ Wood Screws</li> <li>■ Sheet Metal Screws</li> <li>■ Machine Screws</li> <li>■ Lag Screws and Shields</li> <li>■ Concrete/Masonry Screws</li> <li>■ Deck Screws</li> <li>■ Drywall Screws</li> <li>■ Drive Screws</li> </ul> </li> <li>○ Hammer Driven Pins and Studs</li> </ul> </li> </ul> |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

## Construction Trades and Management Scope, Sequence, PBGR

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <ul style="list-style-type: none"> <li>○ Bolts <ul style="list-style-type: none"> <li>■ Stove Bolts</li> <li>■ Machine Bolts</li> <li>■ Carriage Bolts</li> </ul> </li> <li>○ Mechanical Anchors <ul style="list-style-type: none"> <li>■ Anchor Bolts</li> <li>■ One-Step Anchors</li> <li>■ Wedge Anchors</li> <li>■ Stud Bolt Anchors</li> <li>■ Sleeve Anchors</li> <li>■ One-Piece Anchors</li> <li>■ Hammer-Set Anchors</li> </ul> </li> <li>○ Bolt-Type Anchors <ul style="list-style-type: none"> <li>■ Drop-In Anchors</li> <li>■ Expansion Anchors</li> <li>■ Self-Drilling Anchors</li> <li>■ Guidelines for Installing Anchors in Hardened Concrete or Masonry</li> <li>■ Epoxy Anchoring Systems</li> </ul> </li> <li>○ Screw Anchors</li> <li>○ Hollow Wall Anchors <ul style="list-style-type: none"> <li>■ Toggle Bolts</li> <li>■ Wall Anchors</li> </ul> </li> <li>○ Adhesives <ul style="list-style-type: none"> <li>■ Glues</li> <li>■ Construction Adhesives</li> <li>■ Mastics</li> <li>■ Shelf Life</li> </ul> </li> </ul> |                                                                                                                                                               |
| Optional - Hand and Power Tools | <ul style="list-style-type: none"> <li>★ Hand Tools <ul style="list-style-type: none"> <li>○ Safely Using and Maintaining Levels</li> <li>○ Safely Using and Maintaining Laser Levels</li> <li>○ Safely Using and Maintaining Squares</li> <li>○ Safely Using and Maintaining Planes</li> <li>○ Safely Using and Maintaining Clamps</li> <li>○ Safely Using and Maintaining Handsaws</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Program proficiencies:</b><br><b>Math:</b> 1-a,b,c 2-c<br><b>English:</b> 1-b,d,g 2-b,e3<br><b>History:</b> 1-a,d 2-a 5-a<br><b>Science:</b> 1-e,j,k 2-c,d |

## Construction Trades and Management Scope, Sequence, PBGR

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                           |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                             | <ul style="list-style-type: none"> <li>★ Power Tools <ul style="list-style-type: none"> <li>○ Safely Using and Maintaining Power Tools <ul style="list-style-type: none"> <li>■ Safety Rules Pertaining to All Power Tools</li> <li>■ Guidelines Pertaining to the Care of All Power Tools</li> </ul> </li> <li>○ Safely Using and Maintaining Power Saws <ul style="list-style-type: none"> <li>■ Safely Using and Maintaining Circular Saws</li> <li>■ Safely Using and Maintaining Portable Table Saws</li> <li>■ Safely Using and Maintaining Power Miter Saws/Compound Miter Saws</li> <li>■ Safely Using and Maintaining Abrasive Saws</li> <li>■ Safely Using and Maintaining Power Saw Blades</li> </ul> </li> <li>○ Safely Using and Maintaining Drill Presses</li> <li>○ Safely Using and Maintaining Power Planes</li> <li>○ Safely Using and Maintaining Metal Shears</li> <li>○ Safely Using and Maintaining Pneumatic/Cordless Nailers and Staplers</li> </ul> </li> </ul> |                                                                                                                                                           |
| Optional -<br>Introduction to<br>Construction<br>Drawings,<br>Specifications, and<br>Layout | <ul style="list-style-type: none"> <li>★ Construction Drawings <ul style="list-style-type: none"> <li>○ Lines</li> <li>○ Architectural Symbols <ul style="list-style-type: none"> <li>■ Material Symbols</li> <li>■ Window and Door Symbols</li> </ul> </li> <li>○ Trade Symbols <ul style="list-style-type: none"> <li>■ Electrical Symbols</li> <li>■ Plumbing Symbols</li> <li>■ HVAC Symbols</li> <li>■ Site Plan and Topographical Survey Symbols</li> <li>■ Structural Member Symbols</li> <li>■ Welding Symbols</li> </ul> </li> <li>○ Abbreviations <ul style="list-style-type: none"> <li>■ Architectural Used in Drawings and Specifications</li> </ul> </li> <li>○ Dimensioning</li> <li>○ Construction Drawings <ul style="list-style-type: none"> <li>■ Title Sheets, Title Blocks, and Revision Blocks</li> <li>■ Site Plans</li> <li>■ Foundation Plans</li> </ul> </li> </ul> </li> </ul>                                                                                | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |

## Construction Trades and Management Scope, Sequence, PBGR

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <ul style="list-style-type: none"> <li>■ Floor Plans</li> <li>■ Roof Plans</li> <li>■ Elevation Views</li> <li>■ Section Drawings</li> <li>■ Detail Drawings</li> <li>■ Schedules</li> <li>■ Structural Drawings</li> <li>■ Mechanical, Electrical, and Plumbing Plans</li> <li>■ Shop Drawings</li> <li>■ As-Built Drawings</li> <li>■ Soil Reports</li> <li>■ Guidelines for Reading a Set of Drawings</li> <li>★ Specifications <ul style="list-style-type: none"> <li>○ Specifications Organization <ul style="list-style-type: none"> <li>■ Special and General Conditions</li> <li>■ Technical Aspects</li> <li>■ Specifications Format</li> </ul> </li> <li>○ Building Codes</li> </ul> </li> <li>★ Squaring a Building</li> </ul>  |                                                                                                                                                                          |
| Q1/3 - Floor Systems | <ul style="list-style-type: none"> <li>★ Reading Specifications and Plans <ul style="list-style-type: none"> <li>○ Specifications</li> <li>○ Architectural Drawings <ul style="list-style-type: none"> <li>■ Foundation Plans</li> <li>■ Floor Plans</li> <li>■ Section and Detail Drawings</li> </ul> </li> <li>○ Structural Drawings</li> <li>○ Mechanical, Electrical, and Plumbing (MEP) Plans</li> <li>○ Reading Prints</li> </ul> </li> <li>★ Framing Systems <ul style="list-style-type: none"> <li>○ Platform Frame</li> <li>○ Balloon Frame</li> <li>○ Post and Beam Frame</li> </ul> </li> <li>★ Floor Systems <ul style="list-style-type: none"> <li>○ Sill Plates</li> <li>○ Beams/Girders and Supports</li> </ul> </li> </ul> | <p><b>Program proficiencies:</b><br/> <b>Math:</b>1-a,b,c 2-c<br/> <b>English:</b>1-b,d,g 2-b,e3<br/> <b>History:</b>1-a,d 2-a 5-a<br/> <b>Science:</b>1-e,j,k 2-c,d</p> |

## Construction Trades and Management Scope, Sequence, PBGR

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|             | <ul style="list-style-type: none"> <li>■ Solid Lumber Girders</li> <li>■ Built-Up Lumber Girders</li> <li>■ Engineered Wood Girders</li> <li>■ Steel I-Beams</li> <li>■ Beam/Girder Supports</li> <li>○ Floor Joists <ul style="list-style-type: none"> <li>■ Notching and Drilling of Wood Joists</li> <li>■ Wood I-Joists</li> <li>■ Floor Trusses</li> </ul> </li> <li>○ Bridging</li> <li>○ Subfloors <ul style="list-style-type: none"> <li>■ Plywood Subfloors</li> <li>■ Manufactured-Panel Subfloors</li> <li>■ Board Subfloors</li> </ul> </li> <li>★ Constructing Floor Systems <ul style="list-style-type: none"> <li>○ Checking the Foundation for Squareness</li> <li>○ Installing Sill Plates</li> <li>○ Installing a Beam Girder</li> <li>○ Laying Out Sill Plates and Girders for Floor Joists</li> <li>○ Laying Out and Installing Floor Joists for the Partition and Floor Openings <ul style="list-style-type: none"> <li>■ Cutting and Installing Rim Joists</li> <li>■ Installing Floor Joists</li> <li>■ Framing Openings in the Floor</li> </ul> </li> <li>○ Installing Bridging</li> <li>○ Installing Subfloor</li> <li>○ Installing Joists and Cantilevered Floors</li> </ul> </li> <li>★ Estimating the Quantity of Floor Materials <ul style="list-style-type: none"> <li>○ Estimating Sill Plate, Sill Sealer, and Termite Shield</li> <li>○ Beams/Girders</li> <li>○ Joists and Joist Headers</li> <li>○ Bridging</li> <li>○ Subfloor</li> </ul> </li> <li>★ Alternative Floor Systems</li> </ul> |                               |
| Q1/3 - Wall | ★ Wall Components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Program proficiencies:</b> |

## Construction Trades and Management Scope, Sequence, PBGR

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                          |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Systems                               | <ul style="list-style-type: none"> <li>○ Corner Assemblies</li> <li>○ Partitions Intersections</li> <li>○ Headers <ul style="list-style-type: none"> <li>■ Built-Up Headers</li> <li>■ Other Types of Headers</li> </ul> </li> <li>★ Wood Frame Wall Layout <ul style="list-style-type: none"> <li>○ Wall Framing</li> <li>○ Laying Out Wall Openings</li> </ul> </li> <li>★ Assembling and Erecting Exterior Walls <ul style="list-style-type: none"> <li>○ Assembling Walls</li> <li>○ Installing Fire Stops</li> <li>○ Erecting Walls <ul style="list-style-type: none"> <li>■ Plumbing and Aligning Walls</li> <li>■ Bracing Walls</li> <li>■ Sheathing Walls</li> <li>■ Panelized Walls</li> </ul> </li> </ul> </li> <li>★ Wall Framing in Masonry Construction</li> <li>★ Estimate Wall Framing Materials <ul style="list-style-type: none"> <li>○ Estimating Sole Plates and Top Plates</li> <li>○ Estimating Studs</li> <li>○ Estimating Headers</li> <li>○ Estimating Diagonal Bracing</li> </ul> </li> <li>★ Alternative Wall Systems <ul style="list-style-type: none"> <li>○ Concrete Wall Openings</li> <li>○ Interior Walls and Partitions</li> </ul> </li> </ul> | <p><b>Math:1-a,b,c 2-c</b><br/> <b>English:1-b,d,g 2-b,e3</b><br/> <b>History:1-a,d 2-a 5-a</b><br/> <b>Science:1-e,j,k 2-c,d</b></p>                                    |
| Q3/4 - Ceiling Joist and Roof Systems | <ul style="list-style-type: none"> <li>★ Ceiling Components <ul style="list-style-type: none"> <li>○ Laying Out Ceiling Joists</li> <li>○ Cutting and Installing Ceiling Joists</li> <li>○ Estimating Ceiling Joists</li> </ul> </li> <li>★ Common Roof Types</li> <li>★ Roof Framing Components <ul style="list-style-type: none"> <li>○ Dormers</li> <li>○ Rafter Framing Tools <ul style="list-style-type: none"> <li>■ Rafter Square</li> <li>■ Speed Square</li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>Program proficiencies:</b><br/> <b>Math:1-a,b,c 2-c</b><br/> <b>English:1-b,d,g 2-b,e3</b><br/> <b>History:1-a,d 2-a 5-a</b><br/> <b>Science:1-e,j,k 2-c,d</b></p> |

## Construction Trades and Management Scope, Sequence, PBGR

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                          |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         | <ul style="list-style-type: none"> <li>★ Lay Out a Common Rafter <ul style="list-style-type: none"> <li>○ Laying Out Rafter Locations</li> <li>○ Determining the Length of a Common Rafter</li> <li>○ Laying Out and Cutting Common Rafters <ul style="list-style-type: none"> <li>■ Rafter Square Method</li> <li>■ ,Speed Square Method</li> </ul> </li> </ul> </li> <li>★ Erecting Gable Roofs <ul style="list-style-type: none"> <li>○ Installing Rafters</li> <li>○ Framing an Opening in the Roof</li> </ul> </li> <li>★ Frame Gable End Walls <ul style="list-style-type: none"> <li>○ Framing a Gable Overhang</li> </ul> </li> <li>★ Roof Trusses <ul style="list-style-type: none"> <li>○ Truss Construction</li> <li>○ Installing Trusses</li> <li>○ Bracing Roof Trusses</li> <li>○ Steel Framing for Roofs</li> </ul> </li> <li>★ Roof Sheathing</li> <li>★ Estimating Roof Materials <ul style="list-style-type: none"> <li>○ Determining Materials Needed for a Gable Roof <ul style="list-style-type: none"> <li>■ Estimating Rafters</li> <li>■ Estimating Ridgeboards</li> <li>■ Estimating Sheathing</li> </ul> </li> </ul> </li> </ul> |                                                                                                                                                                          |
| <p>Optional -<br/>Introduction to<br/>Building Envelope<br/>Systems</p> | <ul style="list-style-type: none"> <li>★ Building Envelope Components <ul style="list-style-type: none"> <li>○ Air-Filtration Control</li> <li>○ Windows <ul style="list-style-type: none"> <li>■ Types of Windows</li> <li>■ Types of Window Glass</li> <li>■ Energy-Efficient Windows</li> <li>■ Safety Glass</li> </ul> </li> <li>○ Exterior Doors <ul style="list-style-type: none"> <li>■ Exterior Door Sizes</li> <li>■ Weather Stripping</li> <li>■ Thresholds</li> </ul> </li> </ul> </li> <li>★ Windows</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p><b>Program proficiencies:</b><br/> <b>Math:</b>1-a,b,c 2-c<br/> <b>English:</b>1-b,d,g 2-b,e3<br/> <b>History:</b>1-a,d 2-a 5-a<br/> <b>Science:</b>1-e,j,k 2-c,d</p> |

## Construction Trades and Management Scope, Sequence, PBGR

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                           |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <ul style="list-style-type: none"> <li>○ Jamb Extensions</li> <li>○ Glass Block</li> <li>★ Doors <ul style="list-style-type: none"> <li>○ Commercial Exterior Doors</li> </ul> </li> <li>★ Locksets</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                           |
| Optional - Basic Stair Layout | <ul style="list-style-type: none"> <li>★ Types of Stairways <ul style="list-style-type: none"> <li>○ Commercial Stairways</li> </ul> </li> <li>★ Stair Components</li> <li>★ Stair Framing Technology <ul style="list-style-type: none"> <li>○ Headroom</li> <li>○ Stringers</li> <li>○ Treads and Risers</li> <li>○ Handrails and Guards</li> <li>○ Stairwells</li> </ul> </li> <li>★ Stair Calculations <ul style="list-style-type: none"> <li>○ Stairway Design <ul style="list-style-type: none"> <li>■ Determining Riser Height</li> <li>■ Determining Tread Depth (UNit Run) and Total Run</li> </ul> </li> <li>○ Stairwells <ul style="list-style-type: none"> <li>■ Determining Stairwell Openings</li> <li>■ Determining Stairway Unit Rise and Run Used for a Preframed Stairwell</li> </ul> </li> </ul> </li> <li>★ Stair Construction <ul style="list-style-type: none"> <li>○ Laying Out and Cutting a Stringer <ul style="list-style-type: none"> <li>■ Method One</li> <li>■ Method Two</li> </ul> </li> <li>○ Reinforcing Cutout Stringers</li> <li>○ Concrete Stairway Forms</li> </ul> </li> </ul> | <b>Program proficiencies:</b><br><b>Math:1-a,b,c 2-c</b><br><b>English:1-b,d,g 2-b,e3</b><br><b>History:1-a,d 2-a 5-a</b><br><b>Science:1-e,j,k 2-c,d</b> |