

**Construction Technologies
Career Field**

**Structural Coverings and
Finishes**

Subject Code 178004

Paul Kraus-Washington Local

Jason Vida-Penta Career Center



Rigorous Assessment Items Aligned to the Four Depth of Knowledge Levels for Ohio CT Courses in

Agricultural and Environmental Systems

Construction Technologies

Human Services

Health Science

Transportation Systems

Sponsored by Northwest Ohio Tech Prep, Northwest Ohio HSTW, The University of Toledo CTE Teacher Prep Program, and Ohio ACTE



Teachers and administrators from five schools throughout Northwest Ohio engaged in a three day workshop focusing on the creation of rigorous assessment items aligned to the four Depth of Knowledge (DOK) Levels as defined by Ohio's Career Field Technical Content Standards for at least one course in their career field. Rigorous assessment items were developed to assist teachers in the creation of student assessments aligned to the state standards, thus ensuring an increase in student performance on the correlating WebXams.

Schools engaged in the initiative:

Penta Career Center, Perrysburg, Ohio

Christina Kerns, Supervisor of Curriculum and Instruction, Workshop Facilitator
Nicole Costello, Small Animal Care Teacher
Eric Eisel, Auto Collision Teacher
Tracy Graf, Hair Design Teacher
Shelley Rogers, Medical Technologies Teacher
David Stacklin, Agriculture Teacher
Phil Stockwell, Supervisor of Agriculture and Transportation
Jason Vida, Construction Carpentry Teacher

Oregon City Schools, Oregon, Ohio

Steve Bialorucki, Director, Career & Technology Education
Jodi Eckman, Cosmetology Teacher
Meredith Wolfe, Agriculture Teacher

Sylvania City Schools, Sylvania, Ohio

Holly Fair, Cosmetology Teacher
Julie Sanford, Secondary/CTE Assistant Director
Bryan Smith, Ag Business Teacher

Toledo Public Schools, Toledo, Ohio

Bryan Ellis, Urban Agriculture Teacher
Steve Oswanski, Small Animal Management Teacher

Washington Local Schools, Toledo, Ohio

Kimberlee Farnham, Cosmetology Teacher
Leslie Fish, Cosmetology Teacher
Phil Kraus, Construction Carpentry Technology Teacher
Deb Heban, Director, Career & Technical Education

Post-Secondary Support:

Kathleen Crates, The University of Findlay
Paul Hubaker, Northwest Ohio Tech Prep
Eric Landversicht, The University of Toledo
Kathy Wilson, Northwest Ohio Tech Prep



Courses Aligned to the Four DOK Levels:

Agricultural and Environmental Systems Career Field

1. **Agriculture, Food and Natural Resources 010105** (A0, A1, A2, A3, A5, and A6 Pathways)
David Stacklin, Penta Career Center, Agriculture Teacher and Meredith Wolfe, Oregon City Schools, Agriculture Teacher
2. **Greenhouse & Nursery Management 010610** (A0 and A5 Pathways)
Bryan Ellis, Toledo Public Schools, Urban Agriculture Teacher and Bryan Smith, Sylvania City Schools, Ag Business Teacher
3. **Zoo and Aquarium 010940** (A2 Pathway)
Nicole Costello, Penta Career Center, Small Animal Care Teacher and Steve Oswanski, Toledo Public Schools, Small Animal Management Teacher

Construction Technologies Career Field

1. **Structural Coverings and Finishes 178004** (Structural Systems DD Pathway)
Phil Kraus, Washington Local Schools, Construction Carpentry Technology Teacher and Jason Vida, Penta Career Center, Construction Carpentry Teacher

Human Services Career Field

1. **Advanced Hair Cutting and Styling 174130** (Cosmetology M1 Pathway)
Tracy Graf, Penta Career Center, Hair Design Teacher, Kimberlee Farnham, Washington Local Schools, Cosmetology Teacher, and Steve Bialorucki, Oregon City Schools, Director, Career & Technology Education
2. **Advanced Chemical Services 174140** (Cosmetology M1 Pathway)
Tracy Graf, Penta Career Center, Hair Design Teacher, Kimberlee Farnham, Washington Local Schools, Cosmetology Teacher, and Steve Bialorucki, Oregon City Schools, Director, Career & Technology Education
3. **Microbiology and Infection Control 174115** (Cosmetology M1 Pathway)
Jodi Eckman, Oregon City Schools, Cosmetology Teacher, Holly Fair, Sylvania City Schools, Cosmetology Teacher and Leslie Fish, Washington Local Schools, Cosmetology Teacher

Health Science Career Field

1. **Patient Centered Care 072050** (Allied Health and Nursing JM Pathway)
Deb Heban, Washington Local Schools, Director, Career & Technical Education and Shelley Rogers, Penta Career Center, Medical Technologies Teacher

Transportation Systems Career Field

1. **Collision Painting & Refinishing 177012** (Ground Transportation T9 Pathway)
Eric Eisel, Penta Career Center, Auto Collision Teacher and Phil Stockwell, Penta Career Center, Supervisor of Agriculture and Transportation

Course Level Descriptor for each DOK Level
Structural Coverings and Finishes
Jason Vida & Phil Kraus

Course Description:

This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall; trim-joinery and molding and apply wall, floor and ceiling coverings, and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents, and the mitigation of hazards are emphasized.

DOK Level 1

Students identify parts, materials, hand and power tools required for a given project. Students solve basic construction math. Students demonstrate safe material handling, tool use, and personal safety practices.

DOK Level 2

Students perform basic tasks and recognize order of operations to complete each task. Students compare and contrast tools, materials, and methods of installation.

DOK Level 3

Students layout, cut, and install materials. Students create projects based on specifications and drawings, mostly self-directed. Students calculate and create material take-offs, client proposals, and cost analysis.

DOK Level 4

Students troubleshoot and problem-solve real-world, non-routine jobsite issues. Students develop processes and procedures to handle different challenges faced in the construction process. Students stretch their knowledge using research on tools, materials, and methods dictated by specific real-world situations.

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 2.1 Site Safety: 2.1.1-2.1.3, 2.1.6-2.1.11, 2.1.14

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>At what working height does OSHA require fall protection?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Given a job site and project scenario, list the OSHA regulations required.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Create a "tool box" talk for a given phase of a project and present that to a group of workers.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Create a complete safety plan for a given residential construction project.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 2.2 Personal Safety: 2.2.1-2.2.6

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 **Level 2** Level 3 Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u>_x_</u> Activity ____ Project ____</p> <p>What PPE is required when operating a concrete saw?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u>_x_</u> Project ____</p> <p>List the tools required and match the tool with the PPE needed to complete the construction of the porch.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u>_x_</u></p> <p>Research the dangers of installing fiberglass insulation and create a purchase order for the PPE that will need to be purchased in order for a crew of five to install insulation in a home. Cite evidence to support your claims.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u>_x_</u></p> <p>Research studies on lung disease and how it links to the workplace. Create a proposal to place additional regulations on PPE requirements when performing a task. Present your findings to the class and advisory members.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.6.10 Install underlayment

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 **Level 3** Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What are two (2) types of underlayment used in residential roofing?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Match the different types of roofing with the underlayment required.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question __ Activity <u> x </u> Project ____</p> <p>Install underlayment on a roof structure.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Research underlayment choices and installation methods available. Choose an underlayment you would like to use for your standard. Justify your decision and give a short presentation to the class.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.6.11 Lay out and install shingles and roof finishes

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 **Level 3** Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List three (3) common roofing materials used in residential construction.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Calculate the amount of shingles needed for a given structure to a 10% waste allowance.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Lay out, cut, and install asphalt shingles on a roof structure.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Create a complete bid for a given project based on prevailing wage rates. Analyze your bid and develop best practices that could reduce your bottom line. Present your bid to the class in order to sell the job.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.7.1 Compare and contrast types of doors and windows. 3.7.3 Install window and door hardware. 3.7.4 Install weather stripping caulking and sealant. 3.7.5 Install weather stripping caulking and sealant. 3.7.10. Install draft stopping.

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 **Level 3** Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List three (3) types of windows used in residential construction.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What type of window is most energy efficient? List in order from least to most efficient.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What installation methods and manufacturer upgrades or features can increase energy efficiency? Describe at least three (3) installation methods and three (3) manufacturer upgrades of features that can improve energy efficiency.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Install a window to manufacturer specifications. Then install additional insulation, flashing, and caulk to maximize energy efficiency and eliminate moisture intrusion.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.7.2 Identify, describe and assemble materials for exterior finish, 3.7.8 Install exterior siding and covering

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>Label all the siding parts on a given drawing.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Cut and install j-channel around a window.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Complete a material estimate for a given siding project.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Analyze material and labor cost for installing two (2) types of siding material. Choose the material you would like your company to specialize in and justify your choice.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.7.5, 3.7.6, 3.7.7 Exterior Trim

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What are two (2) types of building material used for exterior trim?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Calculate the amount of a specified material needed to case the windows for an entire home.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Lay out, cut, and install exterior trim on a project.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Install trim on a window using at least three (3) different methods. Create a list of pros and cons to each method. Choose a style you would like to market for your company.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.7.9. Install exterior trim accessories (e.g., gutters, downspouts, louvers, shutters, posts, railings, decorative moldings).

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 **Level 3** Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What type of wood is commonly used to construct a deck?</p> <p>When constructing a guard rail the height should be between ____" and ____". Explain why.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>Prepare materials needed to install a porch or deck railing?</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>Layout, cut, and install a porch or deck railing.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Design a deck that meets residential code. Order materials and organize a crew to complete the project.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.1, 3.9.2, 3.9.5, 3.9.6, 3.9.12

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List three (3) different types of drywall and finish materials used to finish interior wall surfaces.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Given a floor plan, calculate the number of sheets of drywall required to complete the job.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Lay out, cut, and install drywall. Tape, mud and finish to given specifications.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Develop a plan to finish the interior wall surface of a full bathroom. Provide different examples of different materials you can choose to use. Describe what makes one interior wall finish technology superior to another depending on the specific area within the bathroom.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.3 Describe the effects insulation, vapor barriers, and ventilation can have on controlling moisture. 3.9.4 Install insulation and vapor barriers for wall and ceiling finishes.

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 **Level 3** Level 4 Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List and define different types insulation used in residential construction.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Compare and contrast different vapor barrier options used for an insulation system in an exterior wall structure.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Properly install fiberglass insulation, ventilation channel, and roof venting in the walls and attic of your module.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Given a scenario where an insulation/ventilation package has been installed incorrectly, investigate and draw conclusions as to the impact on the long term integrity of the structure.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.7 Lay out and install a suspended ceiling

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 Level 4 Level 5 **Level 6**

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List and define tools and materials used in suspended ceilings.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Calculate the required wall molding, hangers, wire, main tees, 4' cross tees, 2' cross tees, and ceiling panels, for a given 2 x 2 grid ceiling plan.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Properly install suspended ceiling according to a given plan.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Given one floor plan, draft two (2) different ceiling plans. Choose the most efficient plan based on labor and materials.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.8 Prepare subfloor, install building paper, and install underlayment.

3.9.9 Lay out and install finished flooring

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>List and define five (5) different types of finished flooring material.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Compare and contrast different types of finish flooring materials. Match installation methods with different flooring materials.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Given a specific scenario, choose the most appropriate flooring material, underlayment, and installation method.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Justify the need for use of proper underlayment for a sheet vinyl kitchen floor. Explain what could happen in the future if the improper subflooring material and installation method is used. What properties are important in a quality underlayment and why?</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.10 Install interior door unit, 3.9.11 Install interior door and window trim

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>Label a drawing with correct terms related to interior door units.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Given specs, develop a list of the required materials needed to properly install a pre-hung interior door including nails, shims, jamb extensions, casing and hardware.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Properly install a pre-hung door unit and builder's hardware in a finished rough opening that is properly prepared.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>You are faced with installing a pre-hung door in a rough opening that is not plumb, level or square. Analyze the problem, and develop a process for the approach you will take to install the door so that it will operate properly.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.13 Apply finish coatings.

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What type of texture is recommended on a bathroom wall?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Apply a knock-down texture and paint an interior wall.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Prepare at least three (3) examples of wall finishes on drywall and present them to a client verbally.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Research a given scenario of a building. Propose a set of specifications, coverings, and finishes. Justify the reasoning for the finish you have proposed.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 3.9.15 Install cabinetry, shelving, and related hardware.

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>When hanging cabinets, screws are driven through the sides of the _____ when attaching cabinets together.</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Install shelving in a closet so that the components are plumbed, level, and square.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Install kitchen cabinets and hardware in a structure.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Create a plan and recommend a procedure for hanging kitchen cabinets in a kitchen where the walls are not plumbed.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 6.1 Develop and present a design, proposal, or concept: 6.1.1-6.1.4

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>What is the purpose of a RIF in the construction process?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Match the appropriate construction document with the given scenario.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Attend a pre-bid meeting and create a material list based on client request.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Create a set of specifications for a small project. Work with other programs and participate in a formal proposal process and present to a potential client.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 6.5.1 Find surface area and volume for three-dimensional objects, accurate to specified level of precision

Depth of Knowledge Level (Check One): Level 1 Level 2 **Level 3** Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>Perform the following calculation: 30'-8" x 41'-2" x 8" = ____ Ft³</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity <u> x </u> Project ____</p> <p>Given a foundation plan, calculate the Cubic yards of concrete needed to pour the footings for the building.</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Given a material allowance, research and select floor coverings appropriate for a multi-room structure. Each room should have a different type of floor covering.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Complete a bid to construct the foundation of a structure. Follow a submittal procedure and complete the bid process.</p>

Notes: _____

Resources Needed: _____

Program: Construction Technology **Course:** Structural Coverings and Finishes

Name(s): Jason Vida & Phil Kraus

Competency: 6.5.2-6.5.4 Apply measurements, math, and proportional reasoning

Depth of Knowledge Level (Check One): Level 1 **Level 2** Level 3 Level 4

Revised Bloom's Taxonomy Level (Check One): Level 1 Level 2 Level 3 **Level 4** Level 5 Level 6

<p>DOK LEVEL 1 RBT LEVEL ____ Question <u> x </u> Activity ____ Project ____</p> <p>The 3-4-5 method is based on what mathematical equation?</p>	<p>DOK LEVEL 2 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Use a 3-4-5 or 6-8-10 triangle to check a room for square. Is it square? If not, how far out of square is it?</p>
<p>DOK LEVEL 3 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Given a site plan, lay out and stake building corners on a site.</p>	<p>DOK LEVEL 4 RBT LEVEL ____ Question ____ Activity ____ Project <u> x </u></p> <p>Research modern survey equipment and GPS tools. Create a proposal for a company to purchase this equipment. Justify the additional cost for the equipment with man hours saved.</p>

Notes: _____

Resources Needed: _____

