

MASONRY 1, 2, 3, 4
COURSE CODE: 6250, 6251, 6252, 6253
STUDENT PROFILE

STUDENT'S NAME:	TEACHER'S NAME:
School Year/Semester:	Date Begin:
Grade:	Date Completed:

Directions: Document student's progress using the applicable rating scales below: Enter date of completion under the appropriate column.

0 - Has not received instruction in this area / **no experience or knowledge of this task (N/A)**

1 – Can apply and perform **independently (80-100)**

2 – Can perform the task completely with **limited supervision (70-79)**

3 – Requires additional instruction and or **close supervision (60-69)**

A. SAFETY		0	1	2	3
1	Review school safety policies and procedures.				
2	Review classroom safety rules and procedures.				
3	Review safety procedures for using equipment in the classroom.				
4	Identify major causes of work-related accidents in office environments.				
5	Demonstrate safety skills in an office/work environment.				
B. STUDENT ORGANIZATIONS		0	1	2	3
1	Identify the purpose and goals of a Career and Technology Student Organization (CTSO).				
2	Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.				
3	Explain the benefits and responsibilities of being a member of a CTSO.				
4	List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.				
5	Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.				
C. TECHNOLOGY KNOWLEDGE		0	1	2	3
1	Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation				
2	Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.				

3	Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.				
4	Explain the consequences of social, illegal, and unethical uses of technology (e.g., cyber bullying; piracy; illegal downloading; cyberbullying; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).				
5	Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, Creative Commons, documents, video, sounds, music, trademarks, and other elements for personal use.				
6	Describe ethical and legal practices of safeguarding the confidentiality of business-related information.				
7	Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.				
D. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS		0	1	2	3
1	Demonstrate punctuality.				
2	Demonstrate self-representation.				
3	Demonstrate work ethic.				
4	Demonstrate respect.				
5	Demonstrate time management.				
6	Demonstrate integrity.				
7	Demonstrate leadership.				
8	Demonstrate teamwork and collaboration.				
9	Demonstrate conflict resolution.				
10	Demonstrate perseverance.				
11	Demonstrate commitment.				
12	Demonstrate a healthy view of competition				
13	Demonstrate a global perspective.				
14	Demonstrate health and fitness.				
15	Demonstrate self-direction.				
16	Demonstrate lifelong learning.				
E. PROFESSIONAL KNOWLEDGE		0	1	2	3
1	Demonstrate effective speaking and listening skills.				
2	Demonstrate effective reading and writing skills.				

3	Demonstrate mathematical reasoning.				
4	Demonstrate job-specific mathematics skills.				
5	Demonstrate critical-thinking and problem-solving skills.				
6	Demonstrate creativity and resourcefulness.				
7	Demonstrate an understanding of business ethics.				
8	Demonstrate confidentiality.				
9	Demonstrate an understanding of workplace structures, organizations, systems, and climates.				
10	Demonstrate diversity awareness.				
11	Demonstrate job acquisition and advancement skills.				
12	Demonstrate task management skills.				
13	Demonstrate customer-service skills.				
F. NCCER® CONTREN CORE MODULES		0	1	2	3
MODULE A: SAFETY					
1	Identify the responsibilities and personal characteristics of a professional craftsperson.				
2	Describe the safe work requirements for elevated work.				
3	Identify and explain how to avoid struck-by and caught-in-between hazards.				
4	Explain the appropriate safety precautions around common job-site hazards.				
5	Demonstrate the use and care of appropriate personal protective equipment (PPE).				
6	Identify and describe other specific job-site safety hazards.				
7	Follow safe procedures for lifting heavy objects.				
8	Describe safe behavior on and around ladders and scaffolds.				
9	Explain the importance of the Hazard Communication Standard (HazCom) requirement and Safety Data Sheets (SDS)				
10	Describe fire prevention and firefighting techniques.				
11	Define safe work procedures around electrical hazards.				
12	Complete 10-hour OSHA course/assessment and receive card. (SDE Requirement)				
13	Complete Performance Tasks				
MODULE B: CONSTRUCTION MATH (OPTIONAL)		0	1	2	3

1	Add, subtract, multiply, and divide whole numbers, with and without a calculator.				
2	Use a standard ruler and a metric ruler to measure.				
3	Add, subtract, multiply, and divide fractions.				
4	Add, subtract, multiply, and divide decimals, with and without a calculator.				
5	Convert decimals to percent and percent to decimals.				
6	Convert fractions to decimals and decimals to fractions.				
7	Explain what the metric system is and how it is important in the construction trade.				
8	Recognize and use metric units of length, weight, volume, and temperature.				
9	Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.				
MODULE C: INTRODUCTION TO HAND TOOLS (OPTIONAL)		0	1	2	3
1	Recognize and identify various types of basic hand tools used in the construction trade.				
2	Identify and describe how to use various types of measurement and layout tools.				
3	Identify and explain how to use various types of cutting and shaping tools.				
4	Use these tools safely.				
5	Describe the basic procedures for taking care of these tools.				
6	Complete Performance Tasks				
MODULE D: INTRODUCTION TO POWER TOOLS (OPTIONAL)		0	1	2	3
1	Identify and explain how to use various types of power drills and impact wrenches used in the construction trade.				
2	Identify and explain how to use various types of power saws.				
3	Identify and explain how to use various grinders and grinder attachments.				
4	Identify and explain how to use miscellaneous power tools.				
5	Use power tools safely.				
6	Explain how to maintain power tools properly.				
7	Complete Performance Tasks				

MODULE E: INTRODUCTION TO CONSTRUCTION DRAWINGS/RECOMMEND BLUEPRINT READING (OPTIONAL)		0	1	2	3
1	Identify and describe various types of construction drawings, including their fundamental components and features.				
2	Recognize and identify basic blueprint terms, components, and symbols.				
3	Relate information on blueprints to actual locations on the print.				
4	Recognize different classifications of drawings.				
5	Interpret and use drawing dimensions.				
6	Complete Performance Tasks				
MODULE F: BASIC RIGGING (OPTIONAL)		0	1	2	3
1	Explain how ropes, chains, hoists, loaders, and cranes are used to move material and equipment from one location to another on a job site.				
2	Describe inspection techniques and load-handling safety practices.				
3	Explain the American National Standards Institute (ANSI) hand signals.				
4	Complete Performance Tasks				
MODULE G: BASIC COMMUNICATION SKILLS (SDE REQUIREMENT)		0	1	2	3
1	Describe the communication, listening and speaking processes and their relationship to job performance.				
2	Describe good reading and writing skills and their relationship to job performance				
3	Demonstrate telephone and e-communication skills necessary in the workplace.				
4	Complete Performance Tasks				
MODULE H: BASIC EMPLOYABILITY SKILLS (SDE Requirement)		0	1	2	3
1	Describe the opportunities in the construction business and how an individual enters the construction workforce.				
2	Explain the importance of critical thinking and how to solve problems in the workplace.				
3	Explain the importance of social skills and identify ways good social skills are applied in the construction trade.				
4	Describe computer systems and their industry applications.				
5	Explain interpersonal relationship skills, self-presentation, and key workplace issues such as sexual harassment, stress, and substance abuse.				

MODULE I: MATERIALS HANDLING (OPTIONAL)		0	1	2	3
1	Describe the hazards associated with handling materials and provides techniques to avoid both injury and property damage.				
MASONRY 1 – 4 LEVEL 1 F. INTRODUCTION TO MASONRY		0	1	2	3
1	Explore career ladders and advancement possibilities in masonry.				
2	Identify the skills, attitudes, and abilities needed to be a successful mason.				
3	Describe various types of training in the masonry industry.				
4	List department of labor (DOL) requirements for apprenticeship.				
5	Describe modern masonry materials and techniques.				
6	Explain how concrete masonry units (CMUs or block) are used in construction.				
7	Explain how clay masonry units (brick) are used in construction.				
8	Explain how stone is used in construction.				
9	Describe how mortar and grout are used in masonry construction.				
10	Describe how wall structures are created using masonry units.				
11	Identify the basic safety precautions when working with masonry materials.				
12	Explain how to mix mortar and lay masonry units.				
13	Demonstrate performance tasks.				
G. MASONRY SAFETY		0	1	2	3
1	Identify the causes and costs of job accidents.				
2	Identify hazards.				
3	Demonstrate proper housekeeping techniques.				
4	Observe mortar and concrete safety.				
5	Observe flammable liquid safety.				
6	Identify the proper use of personal protective equipment in masonry.				
7	Describe how to use protective lenses and face shields.				
8	Describe how to use hearing protection.				

9	Describe how to use gloves and respirators.				
10	Work safely from elevated surfaces.				
11	Explain fall protection procedures.				
12	Describe personal fall arrest systems.				
13	List basic scaffold safety guidelines.				
14	Explain how to protect against falling objects.				
15	Use tools and equipment safely.				
16	Describe how to use hand tools, saws, mixers, and grinders safely.				
17	Describe how to work safely around forklifts.				
18	List basic electrical safety guidelines.				
19	Describe how to use powder-actuated tools safely.				
20	Handle materials properly.				
21	Store and stockpile masonry materials.				
22	Stack brick.				
23	Demonstrate performance tasks.				
H. MASONRY TOOLS AND EQUIPMENT		0	1	2	3
1	Identify hand tools used in masonry.				
2	Describe how to use trowels, hammers, chisels, jointers, and brushes.				
3	Describe how to use other masonry tools.				
4	Identify measures and measuring tools used in masonry.				
5	Describe how to use rules and levels.				
6	Describe how to use chalk boxes, squares, plumb bobs, and laser levels.				
7	Describe how to use corner poles, lines, and fasteners.				
8	Identify mortar equipment used in masonry.				
9	Describe how to use mortar boxes.				
10	Describe how to use mixing accessories.				
11	Identify power tools used in masonry.				
12	Describe how to use masonry saws, splitters, and grinders.				

13	Describe how to use power drills and powder-actuated tools.				
14	Identify power equipment used in masonry.				
15	Describe how to use a mortar mixer.				
16	Describe how to use a masonry pump, vibrator, and hydraulic grout placer.				
17	Describe how to use pressurized cleaning equipment.				
18	Identify lifting equipment used in masonry.				
19	Describe how to use mounted and portable hoists.				
20	Describe how to use hydraulic-lift materials trucks.				
21	Describe how to use forklifts and pallet jacks.				
22	Identify the types of scaffolds used in masonry.				
23	Assemble and disassemble tubular frame scaffold.				
24	Demonstrate performance tasks.				
I. MEASUREMENTS, DRAWINGS, AND SPECIFICATIONS		0	1	2	3
1	Explain how to read a six-foot rule.				
2	Explain how to read other measuring devices.				
3	Explain how to read mason's rules.				
4	Identify modular increments.				
5	Describe how to determine areas and circumferences.				
6	Explain how to use the 3-4-5 ratio to square a corner.				
7	Identify lines, symbols, and abbreviations used on drawings.				
8	Identify scales and dimensions used on drawings.				
9	Identify types of construction drawings.				
10	Explain the purpose of specifications, standards, and codes.				
11	Describe the purpose of inspections and testing.				
12	Demonstrate performance tasks.				
J. MORTAR		0	1	2	3
1	Describe the use of portland cement, hydrated lime, and sand.				
2	Describe masonry cement.				

3	Describe pre-blended mortars.				
4	Describe the use of water and admixtures.				
5	Describe the types of masonry mortar.				
6	Describe properties of plastic and hardened mortar.				
7	Describe the effects of improper proportioning and poor-quality materials.				
8	Explain the effects of extreme weather and tempering.				
9	Describe efflorescence.				
10	Describe how to set up and maintain the mixing area.				
11	Describe how to mix mortar by hand and with a power mixer.				
12	Demonstrate performance tasks.				
K. MASONRY UNITS AND INSTALLATION TECHNIQUES		0	1	2	3
1	Identify the characteristics of concrete masonry units.				
2	Explain how to set up, lay out, and bond concrete masonry units.				
3	Explain how to lay and tool concrete masonry units.				
4	Explain how to clean concrete masonry units.				
5	Identify the characteristics of brick.				
6	Explain how to set up, lay out, and bond brick.				
7	Explain how to lay and tool brick.				
8	Explain how to clean brick.				
9	Explain how to cut with chisels and masonry hammers.				
10	Explain how to cut with saws and splitters.				
11	Explain how to check units and cuts.				
12	Describe how to install masonry reinforcements.				
13	Describe how to install masonry accessories.				
14	Demonstrate performance tasks.				
LEVEL 2		0	1	2	3
F. RESIDENTIAL PLANS AND DRAWING INTERPRETATION					
1	Identify keys and legends, as well as selected lines, architectural terms, abbreviations, and symbols on residential drawings.				

2	Explain how to use scales and dimensions in residential drawings.				
3	Explain how to interpret the various types of residential drawings.				
4	Explain how to use the rule-of-thumb method.				
5	Explain how to use estimating aids.				
6	Demonstrate performance tasks.				
G. RESIDENTAL MASONRY		0	1	2	3
1	Explain what spread foundations are.				
2	Explain what raft and mat foundations are.				
3	Explain what foundation walls are.				
4	Describe the various types of clay brick pavers.				
5	Explain how to install clay brick pavers.				
6	Describe the various types of concrete and interlocking pavers.				
7	Explain how to install concrete and interlocking pavers.				
8	Describe the various types of steps.				
9	Explain how to recognize patterns and tread designs.				
10	Explain how to build a concrete base.				
11	Explain how to set clay brick in steps.				
12	Explain how patios and decks are constructed.				
13	Explain the basic theory of the fireplace.				
14	Describe the parts of a fireplace.				
15	Explain the key points of workmanship.				
16	Explain how to lay out chimneys and fireplaces.				
17	Explain how to begin the fireplace.				
18	Explain how to finish the fireplace.				
19	Describe a multi-opening fireplace.				
20	Demonstrate performance tasks.				
H. REINFORCED MASONRY		0	1	2	3
1	Explain the characteristics of coarse and fine aggregates.				

2	Explain the characteristics of admixtures.				
3	Explain the role of water content in grout.				
4	Explain why compressive strength is important.				
5	Explain what mix specifications are and why they are important.				
6	Explain the procedures for mixing grout.				
7	Explain what low- and high-lift grouting is and how to place grout using this technique.				
8	Explain why mortaring of joints for grouted masonry is important.				
9	Explain how to use mechanical vibrators with grout.				
10	Explain how to cut and bend rebar.				
11	Explain how to place rebar in reinforced walls.				
12	Explain how to install bond beams and bond beam lintels.				
13	Explain how to install precast lintels.				
14	Explain how to install piers, pilasters, and columns.				
15	Demonstrate performance tasks.				
I. MASONRY OPENINGS AND METAL WORK		0	1	2	3
1	Describe how to use and install door and window frames, windowsills, steel lintels, chases, and recesses.				
2	Describe how to use and install ladder and truss joint reinforcement.				
3	Describe how to use and install seismic reinforcements.				
4	Describe how to use and install flexible and horizontal anchors.				
5	Describe how to use and install rigid ties and bolts, bearing plates, saddles, and strap ties.				
6	Demonstrate performance tasks.				
J. ADVANCED LAYING TECHNIQUES		0	1	2	3
1	Identify the structural principles and fundamental uses of different types of wall make-ups, e.g., solid, hollow, cavity, composite, etc.				
2	Identify the uses of control and expansion joints.				
3	Lay out and construct various corners and intersections.				
4	Lay out and construct toothing, corbeling, intersecting walls, and angled corners.				

5	Demonstrate performance tasks.				
K. EFFECTS OF CLIMATE ON MASONRY		0	1	2	3
1	Explain the concept of heat transfer.				
2	Explain the purpose of and installation procedures for internal and external insulation.				
3	Explain the purpose of and installation procedures for flashing, weep vents, and waterproofing.				
4	Explain the role played by weather data and information in masonry construction.				
5	Explain the various techniques used to provide adequate protection during hot- and cold weather masonry construction.				
6	Demonstrate performance tasks.				
LEVEL 3					
F. CONSTRUCTION INSPECTION AND QUALITY CONTROL		0	1	2	3
1	Describe the standards and specifications that apply to masonry units, mortar, grout, and accessories.				
2	Describe the standards that apply to laboratory and field testing of masonry construction.				
3	Describe how to build sample panels.				
4	Describe how to build hollow and grouted masonry prisms.				
5	Describe how to prepare and test mortar and grout prisms.				
6	Describe how to conduct masonry tests.				
7	Describe how to perform sand tests.				
8	Describe how to perform mortar consistency tests.				
9	Describe how to perform brick absorption tests.				
10	Describe how to perform laboratory tests.				
11	Describe why and how standards and codes inspections are performed.				
12	Describe why and how materials inspections are performed.				
13	Describe the types of observations that are undertaken during construction.				
14	Describe why and how construction tolerances are monitored.				
15	Demonstrate performance tasks.				
G. ELEVATED MASONRY		0	1	2	3

1	Describe safety precautions related to an elevated work area.				
2	Discuss fall protection related to elevated work areas.				
3	Describe how to properly brace a concrete masonry wall for wind.				
4	Describe how to properly brace a wall for backfill.				
5	List the construction sequence for elevated masonry systems.				
6	Describe how elevated masonry systems are designed.				
7	Identify common interior and exterior walls used for elevated masonry systems.				
8	Explain safety precautions and proper hand signals to be observed when working around cranes and material hoists.				
9	Explain safety precautions to be observed when moving and stocking materials.				
10	Explain safety precautions to be observed when working at elevated workstations.				
11	Explain how disposal chutes and waste bins are used when working from elevated workstations.				
12	Demonstrate performance tasks.				
H. ESTIMATING		0	1	2	3
1	Describe how to use the coursing method for block.				
2	Describe the square-foot method for block.				
3	Explain how to estimate openings and lintels.				
4	Explain how to estimate mortar for single- and multi-wythe walls.				
5	Explain how to estimate grout.				
6	Explain the coursing method for brick.				
7	Explain the square-foot method for brick.				
8	Describe how to allow for openings in an estimate.				
9	Explain how to estimate mortar for brick.				
10	Explain how to estimate joint reinforcement.				
11	Explain how to estimate structural reinforcement.				
12	Explain how to estimate masonry ties.				
13	Explain how to estimate other masonry units.				

14	Explain how to estimate other masonry accessories.				
15	Demonstrate performance tasks.				
I. SITE LAYOUT – DISTANCE MEASUREMENT AND LEVELING		0	1	2	3
1	List characteristics of contour lines.				
2	Describe layout control points.				
3	Explain how to convert between distance-measurement systems.				
4	Explain how to place control points and other markers.				
5	Describe how to communicate information on control points and other markers.				
6	Discuss how control markers are color coded.				
7	Explain how to use tapes.				
8	Explain how to use range poles.				
9	Explain how to use plumb bobs and gammon reels.				
10	Explain how to use hand sight levels.				
11	Explain how to estimate distances by pacing.				
12	Describe how to measure distances electronically.				
13	Identify leveling instruments.				
14	Describe the use of tripods and leveling rods.				
15	Explain how to set up and adjust leveling instruments.				
16	Explain how to test the calibration of leveling instruments.				
17	Define differential-leveling terminology.				
18	Explain the differential-leveling procedure.				
19	Explain how field notes are recorded and used.				
20	Explain how to transfer elevations up a structure.				
21	Explain profile, cross-section, and grid leveling.				
22	Explain how to construct batter boards.				
23	Describe how to use the 3-4-5 rule.				
24	Demonstrate performance tasks.				
J. FUNDAMENTALS OF CREW LEADERSHIP		0	1	2	3

1	Describe the opportunities in the masonry industries.				
2	Describe how workers' values change over time.				
3	Explain the importance of training and safety for the leaders in the masonry industries.				
4	Describe how new technologies are beneficial to the masonry industries.				
5	Identify the gender and minority issues associated with a changing workforce.				
6	Describe what employers can do to prevent workplace discrimination.				
7	Differentiate between formal and informal organizations.				
8	Describe the difference between authority, responsibility, and accountability.				
9	Explain the purpose of job descriptions and what they should include.				
10	Distinguish between company policies and procedures.				
11	Describe the role of a crew leader.				
12	List the characteristics of effective leaders.				
13	Be able to discuss the importance of ethics in a supervisor's role.				
14	Identify the three styles of leadership.				
15	Describe the forms of communication.				
16	Describe the four parts of verbal communication.				
17	Describe the importance of active listening.				
18	Explain how to overcome the barriers to communication.				
19	List ways that leaders can motivate their employees.				
20	Explain the importance of delegating and implementing policies and procedures.				
21	Distinguish between problem solving and decision making.				
22	Explain the importance of safety.				
23	Give examples of direct and indirect costs of workplace accidents.				
24	Identify safety hazards of the construction industry.				
25	Explain the purpose of OSHA.				
26	Discuss OSHA inspection procedures.				
27	Identify the key points of a safety program.				

28	List steps to train employees on how to perform new tasks safely.				
29	Identify a crew leader's safety responsibilities.				
30	Explain the importance of having employees trained in first aid and cardiopulmonary resuscitation (CPR).				
31	Describe the indications of substance abuse.				
32	List the essential parts of an accident investigation.				
33	Describe ways to maintain employee interest in safety.				
34	Distinguish between company policies and procedures.				
35	Describe the three phases of a construction project.				
36	Define the three types of project delivery systems.				
37	Define planning and describe what it involves.				
38	Explain why it is important to plan.				
39	Describe the two major stages of planning.				
40	Explain the importance of documenting job site work.				
41	Describe the estimating process.				
42	Explain how schedules are developed and used.				
43	Identify the two most common schedules.				
44	Explain how the critical path method (CPM) of scheduling is used.				
45	Describe the different costs associated with building a job.				
46	Explain the crew leader's role in controlling costs.				
47	Illustrate how to control the main resources of a job: materials, tools, equipment, and labor.				
48	Explain the differences between production and productivity and the importance of each.				
49	Demonstrate performance tasks.				
LEVEL 4 (ADVANCED) F. COMMERCIAL DRAWINGS		0	1	2	3
1	Explain the requirements for commercial drawings.				
2	List the contents of commercial plans and describe the purpose of each.				
3	Identify common views used in commercial drawings.				
4	Explain how to read and interpret architectural drawings.				

5	Explain how to read and interpret structural drawings.				
6	Explain how to read and interpret shop drawings.				
7	Define building information modeling and describe its applications.				
8	Describe how specifications are written.				
9	Explain the format of specifications.				
10	Demonstrate performance tasks.				
G. SPECIALIZED MATERIALS AND TECHNIQUES		0	1	2	3
1	Identify pier-and-panel barrier walls.				
2	Identify continuous walls.				
3	Identify common types of arches.				
4	Explain how to calculate and lay out common arches.				
5	Explain how to construct formed arches.				
6	Explain how to construct a jack arch.				
7	Identify refractory brick shapes and sizes.				
8	Explain how to lay refractory brick.				
9	Describe the curing and heat-up process for refractory brick.				
10	Describe structural glazed tile and its applications.				
11	Describe glazed block and its applications.				
12	Describe applications and uses of glass block.				
13	Identify variations in glass block.				
14	Explain how to install glass block.				
15	Demonstrate performance tasks.				
H. STONE MASONRY		0	1	2	3
1	Identify the types of stone.				
2	Describe how stone is quarried.				
3	Explain how stone is cut and finished.				
4	Identify hand and power tools used in stone masonry.				
5	Identify lifting devices used in stone masonry.				

6	Identify fasteners and connectors used in stone masonry.				
7	Describe how to estimate stone veneers.				
8	Describe how to perform stone volume estimates.				
9	Describe how to install stone using anchors and mortar.				
10	Describe how to install adhered stone veneers.				
11	Demonstrate performance tasks.				
I. REPAIR AND RESTORATION		0	1	2	3
1	Identify common types of masonry deterioration and their causes.				
2	Explain how to inspect existing masonry structures.				
3	Explain how to tuck-point a masonry structure.				
4	Describe how to remove efflorescence.				
5	Describe how to repair masonry cracks.				
6	Identify staining problems.				
7	Explain how to remove old paint.				
8	Describe how to clean brick.				
9	Explain how to replace brick and mortar joints.				
10	Explain how to repair water intrusion.				
11	Explain how to repair cracks and localized problems.				
12	Explain how to repair chimneys and fireplaces.				
13	Demonstrate performance tasks.				