Name:				Integrated Academic Skills
	te the stu		Yes, No, or NA to indicate the degree of competency. The rather than the grades given in class.	e rating for each task should reflect
Rating	Scale:			
Ye	s – Acad	lemic kno	owledge area was delivered in the instructional program a	nd was successfully met by the student.
No	– Acade	emic knov	wledge was delivered in the instructional program and wa	as not successfully met by the student.
N /2	A – Acad	demic kno	owledge was not delivered.	
			COMMUNICATION ARTS	
Yes	No	N/A	1. Speaking and writing standard English (including grammar, usage, punctuation, spelling, capitalization)	Notes:
			Demonstrate oral and written skills	
			Use job-related vocabulary	
			Write an invoice	
			Write supply and work orders	
			Keep a journal of daily activities/tasks	
			2. Reading and evaluating fiction, poetry and drama	
_			Comprehend and apply case studies to classroom and job-site activities	
			3. Reading and evaluating nonfiction works and material (such as biographies, newspapers, technical manuals)	
			Follow the procedures on a job sheet	

Develop a care plan

information

solve problems

Conduct research to find specifications

Use the Internet or other online resources to retrieve

4. Writing formally (such as reports, narratives, essays) and informally (such as outline, notes)

Keep a log book to document procedures used to

Keep records on job-related information

Complete a purchase requisition

Write a cover letter and resume

Read and interpret blueprints

Take comprehensive notes

Write a business letter	
Respond to a customer's written or oral request	
5. Comprehending and evaluating the content and artistic aspects of oral and visual presentations (such as story-telling, debates, lectures, multimedia productions)	
Evaluate lectures, sales presentations, and/or informational presentations	
Evaluate video media (e.g. training, safety, health care)	
Evaluate multimedia presentations	_
6. Participating in formal and informal presentations and discussions of issues and ideas	
Perform job demonstrations and skills expositions	
Debate and issue (e.g. masonry block wall verses poured in place concrete)	
Present an idea to your supervisor or peers	
Participate in a mock job interview	
Participate in clinicals using health care techniques	
7. Identifying and evaluating relationships between language and culture	
Demonstrate interpersonal skills when working with customers	
Communicate with non-English speaking customers	
Discuss diversity awareness (e.g. learning styles, socioeconomic, gender, race, and family issues)	

MATHEMATICS

Yes	No	N/A	1. Addition, subtraction, multiplication, and division: other number sense, including numeration and estimation; and the application of	Notes:
			these operations and concepts in the workplace and other situations	
			Calculate the ingredient amount of supplies needed to prepare food	
			Estimate the amount of supplies needed to complete a task	
			Read a scale, ruler, tape measure, etc.	
			Use a calculator	
			Change pounds to kilograms and vice versa to obtain the weight of a client at a long-term care facility	
			2. Geometric and spatial sense involving measurement (including length, area, volume) trigonometry, and similarity and transformations of shapes	
			Develop true lengths of lines in drafting (e.g. designing, a mountain tunnel connecting two different elevations)	

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Read measuring instruments in the trade areas (e.g. micrometer and ruler)	
Use relationship scales (1/4 inch = 1 foot) in Building	
Trades, CAD and Machine Tool	
Read an oscilloscope in Electronics and Automotive Technology	
Calculate the square footage of a house	
Calculate HVAC specifications/ needs of a new house	
3. Data analysis, probability and statistics	
Describe quality control procedures	
Use flow charts in designing products	
Read and analyze gauges in pressure environments	
(e.g. HAVC and process control)	
Read and analyze charts	
Calculate basic descriptive statistics (e.g. averages,	
mode, median)	
4. Patterns and relationships within and among functions and algebraic, geometric, and	
trigonometric concepts	
Use formulas in electronics and electrical work (e.g.	
Ohm's law)	
Use algebra to solve formulas	
Use trigonometry	
Use geometry (e.g. right triangle)	
5. Mathematical systems (including real numbers,	
whole numbers, integers, fractions) geometry, and	
number theory (including primes, factors,	
multiples)	
Calculate paint formulations in Auto Collision Technology	
Calculate pill amounts in pharmacology	
Perform conversions (e.g. temperature, metric,	
standard, fractions to decimals/percentages)	
Calculate fractions and percentages	
Calculate a duty cycle in Automotive Technology	
6. Discrete mathematics (such as graph theory,	
counting techniques, matrices)	
Explain how IP addresses are used in Computer	
Network Administration Explain AND, OR gates in Electronics	
Analyze an exhaust gas recirculation reading	
Explain the break-even point in marketing	
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SCIENCE

Explain the importance of a correct air/ fuel mixture in Automotive and Diesel Technology Describe the combustion process in Automotive and Diesel Technology Describe the curing process when working with concrete Analyze various solvent-based products and describe why they cannot be mixed in Clabinet Making 2. Properties and principles of force and motion Explain how Supplemental Restraint Systems (airbags) release Explain the basics of hydraulics and pneumatics Explain the concept of torque Describe gauge pressure in HVAC or process control environments Demonstrate proper lifting techniques 3. Characteristics and interactions of living organisms Describe geriatrics and their impact on society Measure viral signs Discuss anatomy and physiology (e.g. bones, muscles, respiratory, cardiovascular) 4. Changes in coasystems and interactions of organisms with their environments Describe how yeast interacts with other ingredients Perform soil tests Describe and diagram the food chain Understand a client's concerns and feelings when entering a long-term care facility (e.g. losing privacy and respect for others) 5. Processes (such as plate movement, water cycle, airflow) and interactions of Farth's biosphere, atmosphere, lithosphere, and hydrosphere Describe the effects that chemicals and pesticides can have Explain the effects of refrigerants on the environment Describe the internal combustion process	Van	Nia	NT/A	SCIENCE	Noton
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environment					

6. Composition and structure of the universe and the motions of the objects within it	
Develop a plot plan using GPS/GIS	
Describe multiple transportation systems	
7. Processes of scientific inquiry (such as formulating and testing hypotheses)	
Diagnose an engine using "engine-on" diagnostics	
Perform a slump test on concrete to predict the proper composition for the job	
Diagnose an engine using key-on/ computer diagnostics	
8. Impact of science, technology, and human activity on resources and the environment	
Compare and contrast using chipboard versus a building material	
Dispose of hazardous wastes properly	
Describe plastic welding methods and the impact on recycling	
Describe alternative fuel vehicles as it relates to natural resources	
Demonstrate the proper usage of gloves when giving client care	

SOCIAL STUDIES

Yes	No	N/A	1. Principles expressed in the documents shaping constitutional democracy in the United States	Notes:
			Describe the appeals process	
			Explain client rights in the health care	
			Explain workers' rights on the job site/ employment	
			Discuss civics and the responsibility of all citizens	
			2. Continuity and change in the history of Missouri, the United States and the world	
			Use history to determine the future (e.g. vehicle technology)	
			Discuss foreign markets	
			Discuss NAFTA and its impact on the manufacturing/ economic process	
			Describe the history of nursing (e.g. Florence Nightengale)	
			Describe the changes in client care in the healthcare profession throughout the years	
			3. Principles and processes of governance systems	
			Explain the basics of the legal system and its impact on Criminal Justice programs	
			Discuss federal regulations, codes, and standards (e.g. FCC, OSHA, EPA, NTSB, DOT)	
			Demonstrate knowledge of the certification procedures and regulatory agencies (e.g. State Board of Nursing, State Board of Cosmetology, ASE/NATEF, etc.)	

4. Economic concepts (including productivity and	
the market system) and principles (including the	
laws of supply and demand)	
Create a budget for any trade area project	
Manage money appropriately	
Explain how a business works and what entrepreneurial skills are required to run a business	
Define and discuss the Gross National Product (GNP)	
Explain supply and demand, bartering, and the breakeven point	
5. The major elements of geographical study and	
analysis (such as location, place, movement,	
regions) and their relationships to changes in	
society and environment	
Explain why it may be necessary to relocate for a	
temporary job (e.g. infrastructure and Internet wiring)	
Research jobs that are available in the occupational	
field in a given geographical area	
Discuss the needs/ characteristics of the geriatric	
population	
6. Relationships of the individual and groups to institutions and cultural traditions	
Discuss diversity awareness (e.g. learning styles,	
socioeconomic, gender, race, and family issues)	
Discuss unions and their impact on all aspects of	
society	
Discuss the importance of trade associations	
7. The use of tools and social science inquiry (such	
as surveys, statistics, maps, documents)	
Explain the importance of customer service/	
satisfaction and its impact on business/ industry	
Perform geographic and demographic surveys to determine the needs of the industry	
determine the needs of the industry	

FINE ARTS

Yes	No	N/A	1. Process and techniques for the production, exhibition or performance of one or more of the visual or performed arts	Notes:
			Create an advertising campaign	
			Design an Internet site	
			Design a floral arrangement	
			Use drafting to design a landscape	
			Design various promotional materials (e.g. brochures, posters, flyers, etc.)	
			2. The principles and elements of different art forms	
			Design a product using CAD	
			Design a food presentation	
			Design an architectural product	

Design a hair style
3. The vocabulary to explain perceptions about and evaluations of works in dance, music, theatre, and visual arts
Use the terms and definitions for the occupational field
Use the enhanced vocabulary for the occupational field
4. Interrelationships of visual and performing arts and the relationships of the arts to other disciplines
Discuss "form versus function" in Architectural and Product Design
Discuss photography as an art and how it is used to relay information
5. Visual and performing arts in historical and cultural contexts
Describe the cycle of design (e.g. food and clothing)
Discuss foreign food preparation
Discuss foreign clothing designs

HEALTH/PHYSICAL EDUCATION

Yes	No	N/A	1. Structures of, functions of, and relationships	Notes:
			among human body systems Describe the processes and functions of various body	
			systems	
			Describe how the various body systems interact	
			Describe the relationship of vital signs to the body	
			2. Principles and practices of physical and mental health (such as personal health habits, nutrition, stress management)	
			Describe the food pyramid and recommended daily food group amounts	
			Describe the importance of daily exercise	
			3. Diseases and methods for prevention, treatment, and control	
			Explain the importance of temperature control when preparing food	
			Describe the prevention and treatment of sexually transmitted diseases	
			Describe the prevention and treatment of AIDS	
			4. Principles of movement and physical fitness	
			Demonstrate proper lifting techniques on the job site	
			Explain ergonomics (e.g. how the work space is arranged and posture)	
			Demonstrate proper personal balance when using power tools and equipment	

5. Methods used to assess health, reduce risk factors, and avoid high-risk behaviors (such as violence, tobacco, alcohol, and other drug use)	
Use personal protective equipment	
Explain abuse and the limitations that it can cause (e.g. physical and substance)	
6. Consumer health issues (such as the effects of mass media and technologies on safety and health)	
Explain back flow prevention in Process Control and Plumbing	
Explain the importance of meeting building codes	
Explain the importance of meeting Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) standards	
Explain the importance of Supplemental Restraint Systems in vehicles	
Explain the importance of reducing vehicle emissions	
7. Responses to emergency situations	
Follow specific safety procedures on the job site	
Respond to crisis situations on the job site	
Administer basic first aid	
Explain the importance of 911 and how to use the service	
Administer CPR	
Follow long-term care facility guidelines and procedures for crisis situations during clinicals	