

Introduction to Surgical Technology

Related Academic and Workplace Skills List

Section A: Orientation to Surgical Technology Module 1-A: Professional Responsibilities and Relations

Draw an Organizational Chart of the OR Suite for a Typical Hospital (A.S. 1)	Thinking skills	Seeing things in the mind's eye	Mentally organizing and processing symbols, pictures, graphs, and other information
	Information	Interpretation	Selecting and analyzing information and communicating the results
	Systems	Interrelationships	Knowing how social, organizational, and technological systems work and operate effectively
Distinguish Among Duties of the Surgical Team Members (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
Research Professional Health Care Associations and Their Magazines/Journals (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
Research Organizations That Provide Health Care Support (A.S. 4)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy

Module 2-A: Interpersonal Relationships and Communication Skills

Evaluate Your Interpersonal Relationship Skills (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
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	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Personal management skills	Career awareness, development, and mobility	Assessing self accurately, setting personal goals, establishing and implementing a plan, and monitoring progress
Evaluate Your Listening Skills (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Personal management skills	Career awareness, development, and mobility	Assessing self accurately, setting personal goals, establishing and implementing a plan, and monitoring progress
Apply Effective Communication Skills in Given Situations (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
Evaluate Therapeutic Communication Skills in Given Situations (A.S. 4)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Problem solving	Recognizing and defining problems

Module 3-A: Legal and Ethical Responsibilities

Evaluate Legal Cases Involving Surgery (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Personal management skills	Integrity/honesty	Choosing an ethical course of action when faced with making a decision that may break with personal or societal values and recognizing the impact of violating these beliefs and codes on an organization, self, and others

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Evaluate Ethical Issues Involving Medicine (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Personal management skills	Integrity/honesty	Choosing an ethical course of action when faced with making a decision that may break with personal or societal values and recognizing the impact of violating these beliefs and codes on an organization, self, and others

Section B: Safety Module 1-B: Environmental Safety

Subscribe to a Safety Pledge (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Personal management skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation
Complete an Accident Report Form (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Problem solving	Recognizing and defining problems
Interpret Material Safety Data Sheets (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
Analyze Severe Weather Scenarios (A.S. 4)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Personal management skills	Organizational effectiveness

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Analyze Fire Emergency Scenarios (A.S. 5)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
	Personal management skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation

Apply Safety Principles to the School and Workplace (A.S. 6)	Basic skills	Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
	Personal management skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation

Use Proper Body Mechanics in Standing, Sitting, Moving, and Lifting (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Resources	Material and facilities	Acquiring, storing, and using materials and space efficiently

Operate a Portable Fire Extinguisher (J.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative

Module 2-B: Workplace Safety

Maneuver a Wheelchair Safely (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative

Maneuver a Stretcher Safely (J.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative

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Demonstrate Effective Hand Washing Procedure (J.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Personal management skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation

Section C: Microbiology Module 1-C: Introduction to Microbiology

Research the Causes and Prevention of a Human Disease (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
Interpretation		Selecting and analyzing information and communicating the results	

Module 2-C: Infection and Immunology

Determine Human Portals of Entry and Exit for Various Diseases and Infections (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
Complete a Personal Immunity Survey (A.S. 2)	Personal management skills	Interpretation	Selecting and analyzing information and communicating the results
		Responsibility	Exerting a high level of effort towards goal attainment, working hard to become excellent at doing tasks by setting high standards, paying attention to details, and displaying a high level of concentration
Practice Critical Thinking: Complete a Case Study on Immunity and Infection (A.S. 3)	Basic skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation
		Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles

Related Academic and Workplace Skills List

	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
		Interpretation	Selecting and analyzing information and communicating the results
		Processing	Using computers to acquire, organize, analyze, and communicate information
	Technology	Selection	Choosing procedures, tools, or equipment including computers and related technologies

Module 3-C: Wound Healing

Classify Surgical and Traumatic Wounds (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Determine Types of Traumatic Wounds (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Distinguish Between Positive and Negative Effects on Wound Healing (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem

Section D: Pharmacology Module 1-D: Basic Math

Add Whole Numbers (A.S. 1)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Subtract Whole Numbers (A.S. 2)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Multiply Whole Numbers (A.S. 3)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques

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Divide Whole Numbers (A.S. 4)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Reduce Fractions to Lowest Terms (A.S. 5)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Convert Fractions to Mixed Numbers (A.S. 6)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Add Fractions (A.S. 7)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Subtract Fractions (A.S. 8)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Multiply Fractions (A.S. 9)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Add Decimal Numbers (A.S. 10)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Subtract Decimal Numbers (A.S. 11)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Multiply Decimal Numbers (A.S. 12)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Divide Decimal Numbers (A.S. 13)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Convert Fractions and Percentages (A.S. 14)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Solve Percentage Problems (A.S. 15)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Convert Roman Numerals to Arabic Numerals (A.S. 16)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Read a U.S. Customary Rule (A.S. 17)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques

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Module 2-D: Weights and Measures

Solve Problems Concerning Metric Equivalents (A.S. 1)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Use Abbreviations for Metric Weight and Measures (A.S. 2)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques

Module 3-D: Syringes and Hypodermic Needles

Read Syringe Calibrations (A.S. 1)	Basic skills	Arithmetic/mathematics	Performing basic computations, applying estimating and reasoning skills, and solving practical problems using a variety of mathematical techniques
Fill an Irrigating Syringe (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Personal management skills	Organizational effectiveness	Adapting to the organization's goals, values, culture, and traditional modes of operation
Draw Up Medication Held by Circulator (J.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Interpersonal skills	Teamwork	Working cooperatively with others to reach a common goal

Module 4-D: Pharmacologic Agents

Classify Various Drugs According to Type (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
Use a Drug Information Reference (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
Receive Medication Onto the Sterile Field (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Information	Interpretation
	Interpersonal skills	Teamwork	Working cooperatively with others to reach a common goal

Section E: Biomedical Science Module 1-E: Computer Skills

Examine Computer Operating Manual(s) for Basic Operating Procedures (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
Examine Word-Processing Software Manual for Basic Operations (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
Start/Boot the Computer (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Open and Close a Program (J.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Create a Word-Processed Document (J.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Practice Using the Formatting Toolbar (J.S. 4)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Insert Graphic and Footnote/Endnote in Word-Processed Document (J.S. 5)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Search the Internet (J.S. 6)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment
Use E-Mail (J.S. 7)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Technology	Demonstrating proper procedures for setting up and operating equipment

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Module 2-E: Electricity

Evaluate Surgical Applications of Electricity (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Thinking skills	Problem solving	Recognizing and defining problems
Position Grounding Pad and Connect Electrosurgical Unit (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
	Technology	Application	Demonstrating proper procedures for setting up and operating equipment

Module 3-E: Applied Physics

Apply Motion and Leverage to the Workplace (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Evaluate States of Matter (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Apply Electromagnetic Waveforms to Medicine (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task

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		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Research Lasers (A.S. 4)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Listening	Receiving, interpreting, and responding to oral messages and other cues
	Thinking skills	Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
		Interpretation	Selecting and analyzing information and communicating the results
		Processing	Using computers to acquire, organize, analyze, and communicate information
Visit a Hospital to View Radiation From Preparation to Disposal (A.S. 5)	Basic skills	Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
		Interpretation	Selecting and analyzing information and communicating the results
Recognize the Implications of Using Nuclear Medicine (A.S. 6)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Knowing how to learn	Using efficient learning techniques to acquire and apply new knowledge and skills
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Test Atmospheric Pressure (J.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles

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	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Create Waveform Polarization (J.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Interpersonal skills	Teamwork	Working cooperatively with others to reach a common goal

Module 4-E: Robotics

Evaluate MIS Procedures (A.S. 1)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
		Interpretation	Selecting and analyzing information and communicating the results
Compare Surgical Robotics Equipment (A.S. 2)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem

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	Technology	Selection	Choosing procedures, tools, or equipment including computers and related technologies
Identify Robotics Components (A.S. 3)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
Identify Robotic Motion (A.S. 4)	Basic skills	Science	Applying knowledge learned through study based on scientific principles
Explore Clinical Applications for Robotics (A.S. 5)	Basic skills	Reading	Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
		Writing	Communicating a thought, idea, or fact in written form in a clear, concise manner
		Science	Applying knowledge learned through study based on scientific principles
	Thinking skills	Creative thinking	Using imagination to generate new ideas
		Decision making	Specifying goals and constraints, generating alternatives, considering risks and evaluating and choosing the best alternative
		Problem solving	Recognizing and defining problems
		Reasoning	Applying a rule or principle underlying the relationship between two or more objects when solving a problem
	Interpersonal skills	Leadership	Communicating ideas to justify position; accepting responsibility for others; and encouraging, persuading, convincing, or otherwise motivating an individual or group
	Information	Acquisition and evaluation	Obtaining data from existing sources and evaluating its accuracy
		Interpretation	Selecting and analyzing information and communicating the results

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Demonstrate Degrees of Freedom in the Human Arm (J.S. 1)

Basic skills

Reading

Comprehending written information and analyzing, summarizing, and applying what has been read to a specific task
