

National Pathways Standards and Accountability Criteria	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Biotechnology R & D Pathway Standard 1: Contributions of Biotechnology to health and the human condition - Biotechnology R & D professionals will understand that biotechnology products are based on molecular biology of disease and health; the quality of life through finding a cure for genetic, environmental and behavioral diseases, chronic conditions, industrial enzymes and new diagnostic tools; and legal and ethical issues to protect and preserve the quality of life, with emphasis on social and diversity issues.</p>																										
<p>1.1 Contributions to quality of life</p>																										
1.11 Propose an industrial enzyme that could contribute to the quality of life.																										
1.12 Generate a list of environmental diseases or chronic conditions that have been or could be treated with biotechnology products.	✓												X													
<p>1.2 Legal and Ethical Considerations</p>																										
1.21 Assess a current biotechnology-related ethical issue in the news and how it may affect the quality of life.	✓					X							X													

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Biotechnology R & D Pathway Standard 2: Academic Foundations - Biotechnology R & D professionals will be knowledgeable in the fundamentals of mathematical concepts, statistics, genetics, organic chemistry, biochemistry, cell biology, molecular biology and microbiology.																											
2.1 Mathematical concepts																											
2.11 Illustrate the concepts of percentages and ratios using a biotechnology application.																											
2.12 Contract weight-to-weight and weight-to-volume calculations for solutions.																											
2.13 Explain scientific notation.																											
2.2 Statistics																											
2.21 Compare the standard deviation and the mean of efficacy testing data of two biotechnology products.																											
2.22 Graphically illustrate a set of biotech data such that a layman would understand it.																											
2.3 Genetics																											
2.31 Describe the basic structure of a chromosome.	✓																										

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2.32 Construct a karyotype with human chromosomes.																											
2.33 Differentiate the genetic inheritance of a lethal dominant homozygous trait (e.g. dwarfism) from a heterozygous disease (e.g., sickle cell anemia).																											
2.4 Organic Chemistry																											
2.41 Construct a molecule of a compound with 3 or more carbon atoms.																											
2.42 Create an equation of two organic substrates leading to a product.																											
2.43 Describe atomic number, atomic mass and orbitals.																											
2.44 Contrast covalent, ionic and hydrogen bonding.																											
2.5 Biochemistry																											
2.51 Diagram six chemical side groups that could be in a biotechnology product.																											
2.52 Categorize all amino acids into essential and non-essential.																											
2.53 Describe the relationship between biochemistry and biotechnology product development.																											

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2.54 Compare the underlying reasons why some molecules are hydrophilic and some are hydrophobic.																											
2.6 Cell Biology																											
2.61 Describe the basic structures and functions of cells and how this knowledge is used in biotechnology.	✓	X												X													
2.62 Select cellular barriers to be overcome for a biotechnology product to work inside a cell.																											
2.7 Molecular biology																											
2.71 Diagram the structure of the nucleic acid DNA.	✓													X													
2.72 Demonstrate DNA replication graphically and its' importance to biotechnology product development.	✓													X													
2.73 Describe the central dogma of molecular biology and how understanding this process impacts biotechnology research and development.	✓													X													
2.8 Microbiology																											
2.81 Analyze how microorganisms are used in mass producing recombinant proteins.																											
2.82 Compare and contrast bacterial, fungal, and animal cells and how these similarities and differences affect biotechnology product development and production decisions.	✓													X													

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2.83 Compare and contrast the use of plasmids in bacterial transformation and the process of plasmid DNA isolation.																											
Biotechnology R & D Standard 3: Introduction to Biotechnology Knowledge Areas and Techniques - Biotechnology R & D professionals will be introduced to the following recombinant DNA and genetic engineering, bioprocessing (producing recombinant DNA products on a large scale for profit), monoclonal antibody production, separation and purification of biotechnology products, nanotechnology, bioinformatics, genomics, proteomics and transcriptomics.																											
3.1 Techniques																											
3.11 Describe the following techniques; recombinant DNA, genetic engineering, monoclonal antibody production, separation and purification of biotechnology products and bioprocessing.	✓													X													
3.2 Knowledge Areas																											
3.21 Predict how nanotechnology, bioinformatics, proteomics, genomics and transcriptomics will create new career opportunities.																											

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<p>Biotechnology R & D Standard 4: Laboratory Protocols and Procedures - Biotechnology R & D professionals will understand the principles of solution preparation such as molarity, pH, and dilution; sterile techniques such as inoculum development and transfer; knowledge of contamination control; and measurement and calibration of instruments such as micropipettors and pH meters. They will maintain a sanitary, safe and hazard free laboratory environment. Employees will be adept at teamwork, oral and written communication skills, problem solving, emergency lab response and biosafety protocols.</p>																										
4.1 Procedures																										
4.11 Describe how molarity relates to solution preparation.																										
4.12 Calculate the molarity of a given solution and measure the pH of this solution.																										
4.13 Prepare a serial dilution of a microbial culture starting with 10 ⁻³ going to 10 ⁻⁸ and plate on to nutrient agar petri dishes. Determine the original concentration of the microbial culture.																										
4.2 Protocols																										
4.21 Distinguish the requirements of sterile techniques.	✓							X						X	X	X	X	X	X	X	X	X	X	X	X	X

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4.22 Respond to a hypothetical laboratory accident appropriately as a member of a laboratory team.	✓						X								X												
<p>Biotechnology R & D Standard 5: Product Design and Development - Biotechnology R & D professionals will have the knowledge of how the product is designed, and what is involved in its development and subsequent production, including the laboratory procedures and regulatory requirements. The employee will have a general understanding of the entire process in order to know how their scope of work contributes to the result including; R & D at the lab bench level, both pre-clinical trials, clinical trials (3 phases), product license application, regulatory process for clinical trials (current Good Manufacturing Practices [cGMPs], and Good Laboratory Practices [GLPs]), for production (cGMPs, GLPs).</p>																											
5.1 Development																											
5.11 Diagram the process involved in making one biotech product in an industrial setting.																											
5.12 Analyze the role of pre-clinical and clinical trials in biotechnology product development.																											
5.2 Regulation																											
5.21 Examine the role of a Quality Assurance person in this process.																											

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5.22 Define cGMP and why it is important in biotech production.																											
<p>Biotechnology R & D Standard 6: Bioethics - Biotechnology R & D professionals are not isolated from the social effect of their products in our society. Science, technology and society are intertwined. Biotechnology R & D employees will be conversant with the larger ethical, moral and legal issues related to biotech research, product development and use in society.</p>																											
6.1 Societal																											
6.11 Differentiate between morality and ethics and the relationship of each to biotechnology health care product development.	✓												X										X				
6.12 Discuss bioethical issues related to recombinant products.	✓					X							X														
6.13 Contrast personal, professional and organizational ethics.	✓					X																					
6.2 Institutional																											
6.21 Comply with policies and requirements for documentation and record keeping.	✓										X										X						
6.22 Comply with institutional ethical policies and procedures.	✓				X	X							X	X	X						X						

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Diagnostic Services Pathway Standard 1: Multidisciplinary Communication - Diagnostic services professionals will communicate information within a healthcare environment. They will convey this information to the appropriate discipline(s) in a timely manner.																										
1.1 Oral Communication Skills																										
1.11 Adjust communication to other's ability to understand.	✓	X	X	X						X			X			X		X	X	X						X
1.12 Apply active listening skills using reflection, restatement, and clarification.	✓	X	X	X			X									X	X		X	X						
1.13 Demonstrate courtesy to others including self introduction.	✓	X	X	X									X	X				X	X	X						
1.14 Interpret verbal and nonverbal behaviors to augment communication and within scope of practice.	✓	X		X	X						X															
1.15 Demonstrate interviewing skills.	✓			X																						
1.2 Written Communication Skills																										
1.21 Choose correct syntax and grammar.	✓	X																		X						
1.22 Report relevant information in a timely manner.	✓		X							X	X	X	X	X	X	X	X	X	X	X	X			X	X	X

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1.23 Distinguish between subjective and objective information when reporting.	✓		X														X			X	X						
1.24 Analyze communication for appropriate response and provide feedback.	✓		X		X						X			X			X	X					X				
1.25 Organize, write and compile technical information and summaries.	✓		X								X		X	X	X	X		X	X	X	X	X	X				
1.26 Use medical terminology in order to interpret, transcribe and communicate information, data and observations.	✓	X	X	X							X		X	X	X	X	X	X	X	X	X	X	X	X	X		
Diagnostic Services Pathway Standard 2: Assessment of Patients and Other Clients Status - Diagnostic services professionals will understand the process to assess and report patients and other clients health status.																											
2.1 Assessment of patients and other client's health status																											
2.11 Analyze available information to assess client viability.	✓										X			X			X			X					X	X	
2.12 Evaluate and appraise appropriateness of information.	✓		X			X	X										X										
2.13 Evaluate patient and other client response to treatment and/or procedure.	✓					X	X				X	X	X	X	X	X		X		X				X	X		
2.14 Produce appropriate documentation.	✓			X		X	X				X									X							

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Diagnostic Services Pathway Standard 3: Patient and Other Client Movement - Diagnostic services professionals will understand the principles of body mechanics for positioning, transferring, and transporting of patients and other clients. These activities will be performed efficiently without injury to patients and other clients or self.																										
3.1 Patient and Client Safety																										
3.11 Assess the patient and other client status.	✓										X	X	X	X	X	X	X	X	X	X				X	X	X
3.12 Evaluate potential hazards to patient and other client.	✓										X			X			X								X	X
3.13 Choose and apply appropriate transport methods.	✓							X									X	X		X						X
3.14 Choose and apply appropriate transfer methods.	✓							X									X	X		X						X
3.15 Modify positioning to accommodate patient and other client status.	✓							X									X	X		X						X
3.2 Personal Safety																										
3.21 Apply principles of body mechanics and ergonomics.	✓							X					X		X	X	X	X	X	X	X			X	X	
3.22 Prevent injury by using proper safety equipment and techniques.	✓							X					X		X		X	X		X	X	X	X	X	X	X

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3.23 Choose engineering controls as appropriate.																											
3.3 Equipment Safety																											
3.31 Evaluate equipment for possible hazards.	✓						X						X	X	X	X	X		X		X					X	
3.32 Choose appropriate equipment for transportation.	✓						X																		X	X	
3.33 Choose appropriate equipment for transfer.	✓						X																		X	X	
3.34 Modify equipment and techniques to accommodate patient and other client status.	✓						X					X		X		X		X		X		X		X	X		
3.35 Choose and practice infection control procedures.	✓						X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Diagnostic Services Pathway Standards 4: Patients and Other Clients - Interaction Diagnostic services professionals will understand how to explain procedures and goals to patients and other clients. Various strategies will be used to respond to patients' and other clients' questions and concerns.																											
4.1 Explanation of Procedures and Goals																											
4.11 Assess patient and other client's ability to comprehend.	✓	X	X	X						X			X			X		X	X	X					X		

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4.12 Adjust and modify based on assessment.	✓		X		X		X				X			X			X		X	X	X					X	
4.13 Verify patient and other client's understanding.	✓		X		X		X				X			X			X		X	X	X					X	
4.2 Interaction Strategies																											
4.21 Apply active listening skills using reflection, restatement, and clarification techniques.	✓		X																	X							
4.22 Address patient and other client concerns in a positive manner.	✓		X	X		X	X						X	X	X	X	X		X		X				X	X	
Diagnostic Services Pathway Standard 5: Preparation - Diagnostic services professionals will understand the requests for procedures, interpret the requests, and plan implementation of services as well as appropriate preparation for specific procedures.																											
5.1 Procedural Requests																											
5.11 Comprehend Scope of Practice.	✓		X										X														
5.12 Evaluate request for appropriateness.	✓		X			X	X										X										
5.13 Coordinate interdisciplinary services if applicable.	✓					X	X																				

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5.2 Service implementation																										
5.21 Initiate services based on request.	✓					X						X														
5.3 Protocol Preparation																										
5.31 Choose appropriate protocol based on client assessment and request.	✓					X						X														
5.32 Choose protocol based on resources.	✓			X	X	X																				
5.4 Patient and Other Client Preparation																										
5.41 Verify patient and other client identification.	✓										X									X						
5.42 Ensure client readiness and assess for contraindication.	✓					X	X						X			X										X
5.43 Obtain client informed consent if applicable.	✓					X	X					X														

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Diagnostic Services Pathway Standard 7: Evaluation and Reporting - Diagnostic services professionals will understand the principles of quality assurance/performance improvement as applied to the specific disciplines as well as reporting in a timely manner, utilizing appropriate communication channels.																											
7.1 Procedural Evaluation																											
7.11	Assess the quality of results.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.12	Construct and apply appropriate corrective measures/actions.	✓				X								X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.2 Personal Evaluation																											
7.21	Evaluate quality of results.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.22	Assess problem-solving skills.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.23	Evaluate timeliness and productivity.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.3 Equipment																											
7.31	Evaluate quality of results.	✓						X						X		X	X	X	X	X	X	X	X	X	X	X	X

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7.32 Analysis, construct and apply appropriate corrective measures.	✓					X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7.4 Quality Assurance/Performance Improvement																											
7.41 Choose appropriate evaluation methods.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.42 Evaluate and apply appropriate tools.	✓							X					X	X		X	X	X	X		X				X	X	
7.5 Reporting Methods																											
7.51 Use written, oral and electronic communication skills to produce reports.	✓			X		X	X					X									X						
7.52 Deliver reports to all appropriate parties.	✓			X		X	X					X									X						
7.53 Confirm that the parties involved receive all necessary information.	✓			X		X	X					X									X						

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Support Services Pathway Standard 1: Operations - Support services professionals will examine, differentiate, and enhance the responsibilities of their roles. They will perform their tasks safely following established internal and external guidelines.																											
1.1 Administration																											
1.11 Develop/implement departmental mission statement, goals, objectives, and strategic plan.	✓			X	X																						
1.12 Develop/implement departmental policies, procedures, processes and modify as needed.	✓					X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.13 Coordinate departmental activities with other departments, outside agencies and contractors, including event planning and logistics.																											
1.14 Develop/implement new and existing services.	✓			X					X			X	X	X	X			X	X	X	X	X	X	X	X	X	X
1.15 Design and implement an employee recognition program.																											
1.2 Quality Measurement and Improvement																											
1.21 Monitor customer expectations through satisfaction plans and measurement tools to assure adequacy of products and services.	✓			X								X	X	X	X			X	X	X	X	X	X	X	X	X	X
1.22 Participate and provide support standardization, consolidation and/or re-engineering processes.																											

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1.23 Evaluate cost effectiveness of alternative methodologies.	✓									X		X															
1.24 Perform quality management activities.	✓			X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1.25 Monitor customer expectations through satisfaction plans and measurement tools to assure adequacy of service.	✓			X								X		X	X	X			X	X	X	X	X	X	X		
1.3 Compliance																											
1.31 Adhere to a code of ethics to ensure corporate compliance.	✓					X	X					X	X												X		
1.32 Ensure compliance with legal, regulatory, and accreditation standards or codes. Administer the hazardous materials management program.	✓					X	X					X		X	X												
1.33 Coordinate with physicians, departmental directors/managers, and outside agencies in the development of Emergency Preparedness Plans.	✓							X							X												
1.34 Inspect buildings/facilities and grounds to ensure compliance with standards, regulations, and codes.	✓							X							X												
1.35 Check work of staff to ensure compliance with applicable safety and building regulations.	✓							X							X												

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Support Services Pathway Standard 2: Aseptic Procedures - Support services professionals will adopt work practices that maintain a clean and healthy environment. They will demonstrate best practices to reduce or eliminate pathogenic organisms.																										
2.1 Cleaning and Decontamination																										
2.11 Demonstrate various decontamination techniques and procedures.	✓							X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.12 Demonstrate knowledge of standards precaution guidelines.	✓							X			X				X		X	X				X	X			
2.13 Select procedures and precautions to be followed when using chemicals.	✓							X							X											
2.14 Demonstrate techniques for mechanical and manual cleaning procedures.	✓							X							X											
2.15 Evaluate potential causes and methods of transmitting infection (e.g., contact, airborne, common vehicle, vector-borne).	✓							X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.16 Integrate all infection control standards with design and construction activities.	✓							X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.2 Hazardous Materials and Waste Management																										
2.21 Develop, implement, and monitor hazardous waste disposal policies and procedures in accordance with regulatory requirements.	✓							X								X										

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2.22 Assess and monitor the operations of a waste management program, including recycling and reduction of regulated medical, solid, hazardous chemical and radioactive waste materials.	✓						X									X											
2.23 Develop systems and procedures that minimize customer cost of ordering, storing, and using supplies, services, and equipment.	✓			X																							
2.24 Ensure that regulated waste is handled, packaged, stored and disposed of in accordance with federal, state, and local regulations and maintain appropriate documentation.	✓						X									X											
2.3 Materials Handling and Storage																											
2.31 Demonstrate process and environmental requirements for proper handling and storage of sterile and non-sterile items.	✓						X									X											
2.32 Demonstrate appropriate inventory control and distribution systems.	✓			X									X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2.33 Describe and implement a program to purchase materials, supplies, and capital equipment within allocated resources.	✓			X																X							
2.34 Apply optimal material flow and layout.																											
2.35 Adopt policies and procedures to monitor distribution, consumption, and pilferage or materials.	✓																							X			
2.36 Provide adequate space to meet standards for storage.																											

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3.1 Finance																											
3.11 Participate and evaluate purchasing processes and agreements.	✓			X																							
3.12 Evaluate audit activities, including the review of discrepancies, purchase orders, and invoices.																											
3.13 Assess cost benefits that support best product recommendations.	✓			X																							
3.14 Explain competitive pricing, terms, and service levels.																											
3.15 Identify opportunities for reduction in resource consumption.	✓			X																							
3.16 Develop inventory reduction targets and process to achieve targets.																											
3.2 Acquisition and Distribution																											
3.21 Implement purchasing and procurement techniques that improve the overall supply chain.	✓			X																							
3.22 Analyze timely order placement, supplier performance, and continuously review for effectiveness.																											
3.23 Assess a supplier performance standards program.																											

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3.24 Organize catalogs, price lists, inventory records, purchase order files, and product/supplier files, ensuring that they are updated and current.																											
3.25 Provide consultation to departments requiring assistance in resource allocation.																											
3.26 Assess the integration of resource functions.																											
3.27 Implement appropriate distribution strategies and systems to ensure optimal materials flow.																											
3.28 Organize adequate quantities of supplies, equipment, instruments and medical devices are maintained.																											
3.3 Equipment and Maintenance																											
3.31 Participate in capital purchasing processes.																											
3.32 Assess procedures and processes for the selection, acquisition, distribution, and maintenance of equipment.	✓		X									X	X		X	X	X	X			X				X	X	
3.33 Apply written instructions for the equipment manufactures operations manual, departmental policies and procedures.																											
3.34 Implement a preventive maintenance (PM) process for buildings, equipment, parts, supplied, and utilities as appropriate.	✓							X								X											
3.35 Participate in equipment and systems training programs for maintenance staff and user groups.																											

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3.4 Staffing and Productivity																										
3.41 Participate in a comprehensive training and education program, covering such aspects as safety, infection control, hazardous materials, and new equipment use.	✓							X						X	X	X	X	X	X	X	X	X	X	X	X	X
3.42 Analyze labor distribution for projects and operations.																										
3.43 Adopt reporting mechanisms for departmental functions.	✓										X										X					
Support Services Pathway Standard 4: Aesthetics - Support services professionals will defend the establishment, maintenance, and improvement of the environment. They will assist in the development and implementation of facility standards.																										
4.1 Physical Environment and Presentation																										
4.11 Coordinate with other departments to select facility finishes and furnishings within appropriate safety codes.	✓							X													X					
4.12 Participate in the development of design and construction plans.																										
4.13 Analyze the therapeutic and functional aspects of color décor and furnishing.																										
4.14 Provide facility accessibility through appropriate wayfinding and maintaining a clutter free environment.	✓							X																		

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4.15 Maintain facility in good repair.	✓							X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4.16 Organize, deliver and present products and services in a quality manner.	✓			X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Health Informatics Standard 1: Communication - Health informatics professionals will understand the need to communicate health/medical information accurately and within legal/regulatory bounds across the organization.																											
1.1 Communication																											
1.11 Manage the accuracy, effectiveness, and timeliness of the transfer of information.	✓		X	X		X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1.12 Evaluate legal and regulatory requirements for the transfer of information.	✓					X	X					X	X						X	X							
1.13 Distinguish who in the organization needs information and when they need it.	✓										X									X							
Health Informatics Standard 2: Analysis - Health informatics professionals will know the quantitative and qualitative requirements for information. They will analyze the information for designated purposes.																											
2.1 Analysis																											
2.11 Synthesize information to determine the best course of action.	✓					X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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2.12 Assess health information required by patients, staff, and the community.	✓					X	X					X									X						
2.13 Assemble all necessary data components for successful completion of tasks.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2.14 Appraise the accuracy and completeness of data.	✓					X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X		
2.15 Assess whether information is reported and disseminated within legal and regulatory bounds.	✓					X	X						X						X	X							
<p>Health Informatics Standard 3: Abstracting and Coding - Health informatics professionals will know how to read and interpret a medical record or other medical documents, applying knowledge of medical terminology and codes. They will extract required information from a medical record and other medical documents for a variety of purposes, upon regulatory or legal request.</p>																											
3.1 Abstracting and Coding																											
3.11 Assemble appropriate, accurate information to record charges and reimbursement.	✓											X									X						
3.12 Choose accurate medical terminology.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3.13 Assess and apply information for regulatory and legal purposes.	✓		X			X	X	X				X	X				X		X	X	X	X	X	X	X		

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Health Informatics Standard 4: Information Systems - Health informatics professionals will understand the resources, routes and flow of information within the health care system. They will participate in the design and implementation of effective systems or processes.																										
4.1 Information Systems																										
4.11 Synthesize the information systems utilized by the organization.	✓			X								X										X				
4.12 Assess how systems interact to facilitate the timely and accurate flow.	✓			X								X										X				
4.13 Organize information within the parameters of the information systems.	✓			X								X										X				
4.14 Integrate information for timely, accurate dissemination.	✓			X								X										X				
4.15 Evaluate effectiveness of systems.	✓		X	X		X	X	X	X			X										X				
4.16 Assess and recommend systems for improvement.	✓			X																		X				

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Health Informatics Standard 5: Documentation - Health informatics professionals will understand the content and diverse uses of health information. They will accurately document and communicate appropriate information using legal and regulatory processes.																										
5.1 Documentation																										
5.11 Assemble and accurately document required information.	✓			X							X										X					
5.12 Interpret information that has been collected.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.13 Differentiate the various purposes and audiences for whom the information is collected.	✓			X							X									X						
5.14 Prepare accurate documentation for various audiences within legal and regulatory requirements.	✓					X	X				X									X						
5.15 Disseminate information to various audiences using established systems and guidelines.	✓			X							X									X			X			
5.16 Assess and recommend processes for improvement.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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<p>Informatics Standard 6: Operations - Health informatics professionals will understand the broad scope of operations in which health care services are delivered. They will know the systems operations used to capture, retrieve, and maintain information from internal and external sources. They will utilize internal and external information and resources accurately and efficiently.</p>																										
6.1 Operations																										
6.11 Analyzing the internal and external sources of information and resources available.	✓	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6.12 Project outcomes as interconnected components of a modified health care system.	✓		X																							
6.13 Select the systems and sources of information necessary for the successful completion of the task.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6.14 Participate in the design of operational systems and processes.	✓		X																X				X			
6.15 Evaluate operational systems and processes for improvement.	✓		X																X				X			

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Therapeutic Services Pathway Standard 1: Client Interaction - Therapeutic services professionals will be able to explain planned procedures and goals to patients and other clients. They will use various strategies to respond to questions and concerns of patients and other clients.																										
1.1 Oral Communication																										
1.11 Evaluate patient or other client's ability to understand information given.	✓	X	X	X	X					X		X		X		X	X	X								X
1.12 Demonstrate empathy for patients and other clients.	✓	X	X	X	X	X	X		X	X		X	X	X		X	X	X		X	X	X	X	X	X	X
1.13 Choose jargon-free language appropriate to the situation.	✓	X		X	X					X		X		X		X		X	X	X						X
1.14 Adjust communication to the needs of the patient or other clients.	✓	X		X	X					X		X		X		X		X	X	X						X
Therapeutic Services Pathway Standard 2: Intra Team Communication - Therapeutic services professionals will be able to communicate patient and other client information within a team.																										
2.1 Team Interactions																										
2.11 Distinguish appropriate role and responsibilities of each team member.	✓				X			X												X						
2.12 Respect and value the expertise and contributions of all team members.	✓				X			X												X						

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2.13 Evaluate relevancy of information to be conveyed.	✓		X			X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2.14 Formulate and report information in a way that is clear and concise.	✓		X			X	X				X							X		X							
Therapeutic Services Pathway Standard 3: Information Collection - Therapeutic services professionals will understand the facility protocol and regulatory guidelines for collecting patient and other client information. They will participate in identifying and responding to patient and other client health care needs, strengths, problems and report results.																											
3.1 Information collection																											
3.11 Select appropriate tools for information to be collected.	✓										X	X		X	X		X	X	X	X	X	X	X	X	X	X	
3.12 Collect and format information using facility protocols and regulatory guidelines.	✓		X			X	X				X									X							

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<p>Therapeutic Services Pathway Standard 4: Treatment Planning and Implementation - Therapeutic services professionals will understand the general purpose and components of the treatment plan. They will collaborate in planning procedures according to facility protocol and regulatory guidelines. They will understand how these procedures support the goals and objectives of the treatment plan of the patient or other client and implement the procedures within their scope of practice.</p>																										
4.1 Planning																										
4.11 Design the treatment plan incorporating patient or other client input.	✓			X						X			X	X	X			X		X				X	X	
4.12 Create a treatment plan using a problem-solving model and evaluate for intervention opportunities.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.13 Select appropriate resources to implement treatment plan.	✓								X			X	X	X		X	X		X		X	X	X	X	X	
4.2 Implementation																										
4.21 Evaluate priorities in order to organize work.	✓		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.22 Use equipment and instruments according to the manufacturer's guidelines and accepted safety practice.	✓							X					X		X	X	X	X	X	X	X	X	X	X	X	
4.23 Document actions according to facility protocol and regulatory guidelines.	✓					X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	

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Therapeutic Services Pathway Standard 5: Monitoring Client Status -Therapeutic services professionals will understand the process for monitoring patient and other client health status. They will assess health status and report the results to a treatment team.																										
5.1 Procedures for Monitoring																										
5.11 Evaluate patient and client response to administered treatments and procedures.	✓			X							X	X	X	X	X			X		X					X	X
5.12 Analyze and report patient and other client response.	✓			X							X	X	X	X	X			X		X					X	X
5.13 Assess need for follow up and alternative care.	✓			X					X		X															
Therapeutic Services Pathway Standard 6: Patient and other Client Status Evaluation - Therapeutic services professionals will evaluate patient and other client needs, strengths and problems in order to determine if treatment goals are being reached.																										
6.1 Evaluation																										
6.11 Choose appropriate evaluation tools to assess patient and other client response to treatment plan.	✓			X							X	X	X	X	X			X		X				X	X	
6.12 Analyze information gathered.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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6.13 Revise or create modifications to treatment plan based on information gathered.																										