



## HITT 2346 Advanced Medical Coding

Course Syllabus: Summer 2026

*“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”*

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Weekday	Office Hours
Monday	Online- By Appointment
Tuesday	Online- By Appointment
Wednesday	Online- By Appointment
Thursday	Online- By Appointment
Friday	Online- By Appointment

**This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.**

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

### Course Description:

This course covers advanced concepts of ICD and CPT coding rules, conventions, and guidelines in complex case studies. Government regulations and changes in healthcare reporting will also be studied. This course will concentrate on ICD10-PCS (Procedure Code Classification System) coding.

**Prerequisite(s):** N/A

### Student Learning Outcomes:

1. Define key terms related to each chapter
2. Describe the background and rationale for the development of ICD-10-PCS.
3. List the seven characters that compose an ICD-10-PCS code.
4. Identify the 17 sections of ICD-10-PCS and distinguish between the Medical and Surgical, Medical and Surgical-Related, and Ancillary Sections.
5. Describe the body system and body part characters and how the two-character values relate to each other.
6. Define the meaning of the root operation and the nine subgroups of the root operations in the Medical and Surgical section.
7. List and define the seven different approach values used in ICD-10-PCS.
8. Describe the device character and the criteria for including a value for devices.
9. Discuss the use of the Device Key, Device Aggregation Table, and Substance Key found in the ICD-10-PCS system.
10. Discuss the use of the qualifier as the last character in the ICD-10-PCS code.

## Evaluation/Grading Policy:

The breakdown of the course requirements is as follows:

%	Requirement
20%	Discussions
35%	Chapter Assignments
45%	Capstone Final Coding Exam

Semester grades will be earned as follows

Percentage	Letter Grade
90% and above	A
80%–89%	B
75%–79%	C
74% and below	F

**A minimum of a “C” is required to pass this course.**

**All weekly coursework is due on Sunday (Day 7) at 11:59 p.m.**

Grades will be posted online under the **Gradebook** tab in Blackboard. Grades will typically be posted within one week of the assignment due date. For example, if your assignment is due on Sunday (Day 7) of week 3, you should receive grades on that assignment by Sunday of Week 4.

I will log into the course several times throughout the week to monitor both the **Open Discussion Forum** and the **Weekly Discussion** thread. Feedback on your weekly discussions will be provided using the discussion rubric when your discussion participation is graded, and you can review this feedback when you check your grades for the weekly discussion assignments.

**Assignments** will be given each week and will cover material from the textbook, class discussions, and any additional resources provided by the instructor. If changes are made to the **Course Schedule**, they will be announced in the **Announcements** section of Blackboard. All assignment due dates are listed in the course schedule and within the description of each assignment in the weekly learning module.

If you have a conflict with an assignment due date, it is **your responsibility** to contact me before the due date to discuss alternate submission arrangements. Failure to do so may result in a grade of zero for the assignment. It is also your responsibility to ensure that assignments are submitted on or before the due date.

**Late Work** is not accepted except in cases of unforeseen circumstances, such as a death in the immediate family, hospitalization, or other serious family emergencies. In these situations, please contact me as soon as possible to discuss the possibility of an extension. Technology issues are not considered a valid reason for missing assignment deadlines.

If you would like specific feedback regarding grades or assignments, please contact me via **NTCC Email** or through **Messages** in Blackboard. If you have a general question that may benefit the entire class, please post it in the **Open Discussion Forum** at the beginning of the course.

I strongly encourage and welcome your questions whenever you need further clarification on assignments, feedback, or course expectations.

### **Required Instructional Materials:**

**Textbook:** ICD-10-PCS: An Applied Approach 2023. Kuehn & Jorwic,

**Publisher:** AHIMA **ISBN Number:** 9781584268826

### **Course Materials and Assignments:**

Along with your textbook for this course, additional information can be obtained through websites and internet resources. You are expected to use the Internet for additional research to enhance your discussions and assignments.

You may also use the following online resources, in addition to your textbook, for looking up ICD10-PCS Codes:

- <https://www.icd10data.com>
- <https://www.aapc.com/codes/icd-10-pcs-codes-range/>
- <https://www.findacode.com/icd-10-pcs/icd-10-pcs-procedure-codes-set.html>

### **Optional Instructional Materials:**

N/A

### **Minimum Technology Requirements:**

Students enrolled in this course should have regular access to the following technology resources to successfully participate in course activities and complete assignments in Blackboard:

- A reliable computer or laptop capable of accessing Blackboard and course materials
- A stable internet connection
- An updated web browser such as Google Chrome, Mozilla Firefox, Microsoft Edge, or Safari
- Microsoft Office or compatible software for creating and submitting documents (Word,

PowerPoint, Excel, and PDF files)

- Access to NTCC Email and Blackboard Messages for course communication
- Speakers or headphones for viewing multimedia content, if applicable
- The ability to upload and download files within Blackboard

**NTCC Computer Services recommends obtaining a Windows 11 PC with the following specifications:**

1. i5 core processor
2. 8 GB of Ram
3. 256 GB solid state drive (SSD)

**\*\* Chromebooks and tablets/mobile devices are not recommended for completing your class work. \*\***

If you have issues regarding connectivity, please contact NTCC's IT Helpdesk for help. Information regarding technology requirements can be found under the "**Technical Requirements and Course Navigation**" in the "START HERE" folder. If you have problems with connectivity, please contact NTCC tech support.

## **Required Computer Literacy Skills:**

Students enrolled in this course should possess the following skills to successfully participate in and complete course requirements:

- Navigate and use the Blackboard Learn learning management system, including accessing course materials, announcements, grades, and assignments.
- Use NTCC email and course messaging tools to communicate with the instructor and classmates.
- Submit assignments electronically through Blackboard, including uploading files in commonly used formats such as Microsoft Word, PDF, or PowerPoint.
- Create, save, rename, organize, and locate electronic files on a computer or cloud-based storage system.
- Participate in online discussion forums by creating original discussion posts and replying to classmates.
- Use word processing software such as Microsoft Word (preferred) to create and format written assignments and papers.
- Apply basic formatting skills in written documents, including headings, spacing, margins, page numbers, citations, and file conversion to PDF when required.
- Conduct basic internet searches and access online academic resources.
- Download and install required software, web browsers, plugins, or applications when needed for course participation.
- Maintain reliable internet access and regularly monitor course announcements, feedback, and grades.
- Troubleshoot basic technical issues, such as browser compatibility, clearing cache/cookies, or restarting applications/devices when needed.

## **Course Structure and Overview:**

The instructional methods and tools are tied to the course and chapter learning objectives by

allowing the student to research, discover, and perform the differing coding exercises and class discussion forums. This course uses the following tools to aid students in successfully achieving the learning objectives in this course:

1. Weekly assignments and coding scenarios.
2. Weekly discussion questions.
3. Additional articles, lectures, and video demonstrations supplied by the instructor.

**Discussion Questions (DQs):** You will have one DQ due each week that is worth 15 points. Grading is based on the **DQ Rubric** located in the “START COURSE HERE” module on the main content page of the course. Please post your initial response by Day 3 (Wednesday), and at least one peer response and/or instructor response by Day 5 (Friday). You must post at least twice to receive full credit for participation. Minimum word count for your initial posting is 50 words and minimum word count for peer responses is 25 words.

Discussion posts should be thoughtful and engage with the content by offering insight or asking questions related to the topic. Posts are expected to be well-researched, add value to the discussion, and demonstrate critical thinking.

**Please note** that grading will include evaluation of grammar, spelling, punctuation, and overall written communication. Proper use of citations and references is also required. Guidance on APA (preferred) formatting is available in the **START COURSE HERE** module; however, MLA formatting is also acceptable if you are more comfortable with it. **All discussion posts** must include appropriate cited and referenced material.

**Chapter Assignments:** Assigned Chapter Assignments are due by Sunday (Day 7) at 11:59 pm each week.

**Final Capstone Coding Exam:** This exam will be administered in the testing center at the end of the semester. Additional information regarding the coding exam will be posted toward the end of the term. This exam accounts for almost half of your grade, so it is a requirement for receiving a passing grade in this course.

### **Communications:**

Since this is an online course and we do not interact face-to-face, **good communication within the online environment is essential**. Please read “The Core Rules of Netiquette” posted the under **START COURSE HERE** module.

If you have any questions regarding the course content or questions related specifically to the class, please post them in the **Open Discussion Forum** at the beginning of the course. Please take advantage of this forum as all students may benefit from your insight.

If you have a personal question or situation, please email me directly. I make it a policy to answer all emails within **24 hours** of receipt of the email. If I do not respond to you in that time frame, you may call or text me. As with all electronic transfer of information (Internet connection issues), I may not have received your email, so please take that into consideration. I will also log into our classroom frequently each week. If for any reason I will be unavailable or need to update the class with any changes during the semester, I will post an announcement in Blackboard that will display the next time you enter the course. Blackboard will require you to read all announcements before moving forward.

It is important to always check your **Messages, Announcements**, and the **Open Discussion Forum** each time you check into the classroom. One of your classmates may have posted feedback or insights that are helpful to you, or I may have provided general information to assist you with your work.

Private messaging and e-mailing email between the student and instructor should only be used for personal, confidential situations. Any communication regarding a personal matter should be sent directly to the instructor via NTCC e-mail. No communications of a private or personal matter should be posted in the public spaces of the classroom.

You may also use the **Open Discussion Forum** to initiate and participate in conversations that are not directly related to the course. This is a great opportunity to get to know your classmates and exchange information, ideas, and insights with others.

### **Institutional/Course Policy:**

#### **Drop Policy:**

The last day to drop with a grade of “W” is **July 30, 2026**. The instructor will **not** drop students from the course rolls for any reason. If the student decides not to complete the course, it is the responsibility of the student to officially drop the course through the Registrar’s office. Failure to do so will result in an “F” being awarded in the course.

#### **Attendance:**

This is an online course – there is no on-campus attendance for this course. Attendance is not recorded for this class, but it is recommended that you log-on to your classroom at least once daily to ensure you are aware of announcements, assignments, discussions, and testing. The course week begins on Monday (Day 1) at 12:01am and ends on Sunday (Day 7) at 12:00 midnight.

### **Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:**

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC’s website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

### **Statement Regarding the Use of Artificial Intelligence (AI) Technology:**

Employees and students shall be permitted to explore artificial intelligence (AI) and implement its use in and out of the classroom in accordance with policy and administrative regulations. The use of AI shall

only be as a support tool to enhance student outcomes or as necessary to engage in research and shall never take the place of faculty, staff, and student decision-making. Any use of AI must comply with law, policy, and administrative regulations relating to student and employee privacy and data security. A student shall only use AI tools with faculty permission and shall be expected to produce original work and properly credit sources, including AI tools used in creating the work.

Example:

APA (7th edition)

OpenAI. (2026). ChatGPT (March 25 version) [Large language model]. <https://chat.openai.com/>

MLA (9th edition)

OpenAI. ChatGPT. 25 Mar. 2026, <https://chat.openai.com/>.

Employees or students who use AI tools to deceptively harm, bully, or harass others shall be disciplined in accordance with policy. [See DH, DIA series, FFD series, FFE, FLB, and the FM series] AI Use by Employees and Students. Northeast Texas Community College 225500 TECHNOLOGY RESOURCES CRB ARTIFICIAL INTELLIGENCE (LOCAL) DATE ISSUED: 12/8/2025 1 of 1 UPDATE 50 CRB(LOCAL)-AJC Adopted: 12/16/2025

### **NTCC Academic Honesty/Ethics Statement:**

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

### **ADA Statement:**

It is the policy of NTCC to provide reasonable accommodation for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodation as required to afford equal educational opportunity. It is the student's responsibility to request accommodation. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

### **Family Educational Rights and Privacy Act (FERPA):**

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and

participation in officially recognized activities/sports.

## Tentative Course Schedule:

Week	Assignments & Activities	Start Date	Due Date
Week 1	<ul style="list-style-type: none"><li>• Read Chapters 1 &amp; 2</li><li>• Class Introductions Discussion</li><li>• Student Contract</li><li>• Post to Week 1 Discussion*</li><li>• Submit Week 1 Assignments</li></ul>	June 8 <sup>th</sup>	June 14 <sup>th</sup>
Week 2	<ul style="list-style-type: none"><li>• Read Chapters 3 &amp; 4</li><li>• Post to Week 2 Discussion*</li><li>• Submit Week 2 Assignments</li></ul>	June 15 <sup>th</sup>	June 21 <sup>st</sup>
Week 3	<ul style="list-style-type: none"><li>• Read Chapters 5 &amp; 6</li><li>• Post to Week 3 Discussion*</li><li>• Submit Week 3 Assignments</li></ul>	June 22 <sup>nd</sup>	June 28 <sup>th</sup>
Week 4	<ul style="list-style-type: none"><li>• Read Chapters 7,8 &amp; 9</li><li>• Post to Week 4 Discussion*</li><li>• Submit Week 4 Assignments</li></ul>	June 29 <sup>th</sup>	July 5 <sup>th</sup>
Week 5	<ul style="list-style-type: none"><li>• Read Chapters 10 &amp;11</li><li>• Post to Week 5 Discussion*</li><li>• Submit Week 5 Assignment</li></ul>	July 6 <sup>th</sup>	July 12 <sup>th</sup>
Week 6	<ul style="list-style-type: none"><li>• Read Chapters 12,13 &amp; 14</li><li>• Post to Week 6 Discussion*</li><li>• Submit Week 6 Assignment</li></ul>	July 13 <sup>th</sup>	July 19 <sup>th</sup>
Week 7	<ul style="list-style-type: none"><li>• Read Chapters 15 &amp;16</li><li>• Post to Week 7 Discussion*</li><li>• Submit Week 7 Assignment</li></ul>	July 20 <sup>th</sup>	July 26 <sup>th</sup>
Week 8	<ul style="list-style-type: none"><li>• Read Chapters 17,18,19 &amp;20</li><li>• Post to Week 8 Discussion*</li><li>• Submit Week 8 Assignment</li></ul>	July 27 <sup>th</sup>	August 2 <sup>nd</sup>
Week 9	<ul style="list-style-type: none"><li>• Read Chapters 21, 23 &amp; 24</li><li>• Post to Week 9 Discussion*</li><li>• Submit Week 9 Assignment</li></ul>	August 3 <sup>rd</sup>	August 9 <sup>th</sup>
Week 10	<ul style="list-style-type: none"><li>• Final Exam*</li></ul>	August 10 <sup>th</sup>	August 14 <sup>th</sup>

***\*See the Course Calendar and/or assignment instructions for more specific due dates.***

## Chapter Objectives

### Chapter 1

1. Describe the background and rationale for the development of ICD-10-PCS.
2. List the seven characters that compose an ICD-10-PCS code.
3. Identify the 17 sections of ICD-10-PCS and distinguish between the Medical and Surgical, Medical and Surgical-Related, and Ancillary Sections.
4. Describe the body system and body part characters and how the two-character values relate to each other.
5. Define the meaning of the root operation and the nine subgroups of the root operations in the Medical and Surgical section.
6. List and define the seven different approach values used in ICD-10-PCS.
7. Describe the device character and the criteria for including a value for devices.
8. Discuss the use of the Device Key, Device Aggregation Table, and Substance Key found in the ICD-10-PCS system.
9. Discuss the use of the qualifier as the last character in the ICD-10-PCS code.
10. List the steps in code building in ICD-10-PCS, both in using the CMS file and code book method.
11. Build ICD-10-PCS codes for given procedures using the CMS file and code book method.

## **Chapter 2**

1. Recognize the contents and use of the ICD-10-PCS Official Guidelines for Coding and Reporting.
2. List the Cooperating Parties who must approve the ICD-10-PCS guidelines.
3. Identify the 11 Guidelines in the Conventions section that address the characters of an ICD-10-PCS code, how an ICD-10-PCS code is built, use of the index, and apply the definitions to documentation.
4. List the two Medical and Surgical section guidelines for body system designating when codes from the general anatomical regions body system are used and the line of demarcation for upper and lower body systems.
5. Discuss guidelines specific to Medical and Surgical section root operations, general guidelines, multiple procedures, discontinued procedures, and other guidelines specific to certain root operations.
6. Identify the Medical and Surgical section guidelines specific to the body part character, including bilateral body part values, coronary arteries, and procedures performed on or around joints.
7. List the four Medical and Surgical section guidelines specific to approaches.
8. Discuss the Medical and Surgical section guidelines that relate to devices and the criteria for using a value for the device character.
9. Identify the two guidelines specific to the Obstetrics section.
10. List the guideline specific to section X, New Technology.
11. Discuss the guidelines for selection of the principal procedure.

## **Chapter 3**

1. Recall the use of ICD-10-PCS for coding inpatient procedures and the use of codes from the Medical and Surgical section for these procedures.
2. Identify the meaning of the seven characters in the Medical and Surgical section.

3. Describe the definition of the root operation and how the root operation is determined from analyzing clinical documentation.
4. List the root operations group 1 that take out some or all of a body part.
5. State the definition of the root operations Excision, Resection, Detachment, Destruction, and Extraction.
6. Distinguish between the root operations Excision and Resection.
7. Distinguish between body part values that are generally considered as body parts and those that are subdivided within the ICD-10-PCS system.
8. Define the qualifier values that are used in the root operation Detachment for the specific portion of the body part that is amputated.
9. List the root operations in group 2 that take out solids/fluids/gases from a body part.
10. State the definition of the root operations Drainage, Extirpation, and Fragmentation.
11. List the two general types of solid matter that are involved in Extirpation and Fragmentation procedures.
12. Describe the use of the qualifier value X to describe a diagnostic procedure/biopsy for the Excision, Extraction, and Drainage root operations.

## **Chapter 4**

1. List the root operations in group 3 that involve cutting or separation only.
2. State the definition of the root operations Division and Release.
3. Distinguish between the two root operations Division and Release.
4. List the root operations in group 4 that put in/put back or move some or all a body part.
5. State the definition of the root operations Transplantation, Reattachment, Transfer, and Reposition.
6. List some of the complex organs that are currently transplanted.
7. Identify the correct coding of cornea, blood marrow, and pancreatic cell transplants.
8. Define the three qualifiers available for Transplantation procedures.
9. Describe Reattachment procedures and the restoration or non-restoration of the blood and nerve supply to the reattached body part.
10. Discuss the criteria for the use of the Transfer root operation and qualifiers for multi-layer Transfer procedures as stated in Coding Guideline B3.17.
11. Identify the types of procedures classified as Reposition root operations.
12. Discuss when Reposition is used for displaced fracture replacement and the correct coding of nondisplaced fractures.

## **Chapter 5**

1. List the root operations in group 5 that alter the diameter or route of a tubular body part.
2. State the definition of the root operations Restriction, Occlusion, Dilation, and Bypass.
3. Distinguish between the two root operations Restriction and Occlusion.
4. Discuss the designation of the body part value for number of coronary arteries in the Dilation and Bypass root operations.
5. Identify how Dilation procedures with multiple device values are coded in ICD-10-PCS.
6. Distinguish between the proper coding of non-coronary artery and coronary artery bypass procedure coding.
7. List the root operations in group 6 that always involve a device.
8. State the definition of the root operations Insertion, Removal, Revision, Replacement,

Supplement, and Change.

9. Distinguish between the root operations Removal, Revision, and Change.

## **Chapter 6**

1. List the root operations in the groups that involve examination only.
2. State the definitions of the root operations Inspection and Map.
3. Describe the guidelines applicable for coding Inspections of overlapping layers of the musculoskeletal system and multiple tubular body parts.
4. Identify the correct coding for procedures that are discontinued before any other root operation can be performed.
5. Discuss the coding of Inspection along with another root operation performed on the same body part using a different approach.
6. List the two body systems that include the root operation Map.
7. Identify the four body systems that are applicable to Control procedures and discuss the definition of this root operation.\
8. Describe the root operation Repair and its use as the NEC root operation.
9. Identify the two body systems that are applicable to Fusion procedures.
10. Indicate the device value used for Fusion procedures that include a combination of devices.
11. Describe the use of the Alteration root operation versus other root operations in the Medical and Surgical section.
12. Discuss the use of the Creation codes for gender reassignment and some heart procedures.

## **Chapter 7**

1. Discuss the three anatomical body system values in ICD-10-PCS; General, Upper Extremities, and Lower Extremities.
2. Review the components of the General Anatomical Regions and discuss when these codes are used.
3. Identify the area that divides the upper and lower extremities.
4. Discuss the components of the Upper and Lower Extremity region in relation to Detachment and Reattachment procedures.
5. Describe the use of the root operation Control in the Anatomical Regions and Ear, Nose and Sinus body systems.
6. Discuss the other applicable root operations for general regions and the upper and lower extremities, including Detachment, Division, Alteration, and Creation.
7. Review the procedure used to locate values for body parts that do not have their own body part values.
8. List the six applicable approaches used in the anatomical regions general and the four applicable approaches for the upper and lower extremities regions.
9. Recognize the applicable device values for the anatomical regions.
10. Discuss the use of qualifier values for Bypass in the general regions and Detachment in the upper and lower extremities regions.

## **Chapter 8**

1. List the basic components and functions of the nervous system, central nervous system, and peripheral nervous system.

2. Review the anatomy of the central nervous system including the spaces around the brain, basal ganglia, and the cranial nerves.
3. Review the anatomy of the peripheral nervous system, including the somatic and autonomic nerve.
4. Discuss the 22 applicable root operations for the central nervous system.
5. Discuss the 17 applicable root operations for the peripheral nervous system.
6. Identify the use of the body part value Y in the peripheral nervous system.
7. Review the procedure used to locate values for body parts that do not have their own body part values.
8. List the four applicable approaches used in the central and peripheral nervous system.
9. Recognize the applicable device values for the central and peripheral nervous system, including Radioactive element, Cesium-131 Collagen Implant.
10. Discuss the use of qualifier values for Bypass and Transfer root operations.
11. Identify the meaning of qualifier value B in the central nervous system for cerebral cisterns.

## **Chapter 9**

1. Describe the function of the eyes, ears, and nose in processing sensory information.
2. Review the anatomy of ocular system, ear, nose, and sinuses.
3. Discuss the common root operations used in coding procedures performed on the sense organs.
4. Review the procedure used to locate values for body parts that do not have their own body part values.
5. List the applicable approaches used in the eye and ear, nose, and sinus and the one approach used only in the ear nose and sinus body system.
6. Recognize the applicable device values for the sense organs.
7. Discuss the use of qualifier values for Bypass procedures in the eye and ear, nose, and sinus.

## **Chapter 10**

1. List the basic components and functions of the respiratory system, mouth and throat.
2. Review the anatomy of the mouth and throat and respiratory systems.
3. Discuss the applicable root operations for the mouth and throat and respiratory systems.
4. Describe the body part values available in the respiratory system and their use in Excision and Resection procedures.
5. Review the procedure used to locate values for body parts that do not have their own body part values.
6. List the six applicable approaches used in the mouth and throat and respiratory systems.
7. Discuss the use of the External approach for structures visualized through the open mouth.
8. Recognize the applicable device values for the mouth and throat and respiratory systems.
9. Discuss the use of qualifier values for procedures on the teeth and by Bypass and Replacement root operations.

## **Chapter 11**

1. List the basic functions and organization of the circulatory system.
2. Review the anatomy of the heart and great vessels, upper and lower arteries, and upper and lower veins.
3. Discuss the common root operations used in the circulatory system.

4. Describe the body part values available in the circulatory system and the special circumstances for the coronary arteries.
5. Review the procedure used to locate values for body parts that do not have their own body part values.
6. List the approaches used in the circulatory system.
7. Describe the device values common to the circulatory system.
8. Explain the unique circumstances involved in coding coronary bypass procedures.
9. Discuss the use of qualifier values for procedures in the circulatory system.

## **Chapter 12**

1. List the basic functions and organization of the gastrointestinal and hepatobiliary systems.
2. Review the anatomy of the gastrointestinal and hepatobiliary systems.
3. Discuss the common root operations used in the gastrointestinal and hepatobiliary systems.
4. Describe the body part values available in the gastrointestinal and hepatobiliary systems including the general body part values for upper and lower intestinal tract for selected root operations.
5. Review the procedure used to locate values for body parts that do not have their own body part values.
6. List the six applicable approaches used in the gastrointestinal and hepatobiliary systems, including approach F in the gastrointestinal Excision and Resection tables.
7. Describe the device values common to the gastrointestinal and hepatobiliary systems.
8. Discuss the use of qualifier values for procedures in gastrointestinal and hepatobiliary systems.

## **Chapter 13**

1. List the basic functions and organization of the Endocrine and Lymphatic systems.
2. Review the anatomy of the Endocrine and Lymphatic systems.
3. Describe some of the hormone-secreting organs that are found outside the Endocrine body system.
4. Discuss the common root operations used in the Endocrine and Lymphatic systems.
5. Identify that the difference between the Endocrine and Lymphatic systems is that the lymphatic system has tubular body parts while the Endocrine system does not.
6. Describe the body part values available in the Endocrine and Lymphatic systems including the general body part values for Lymph and Bone Marrow for selected root operations.
7. Review the procedure used to locate values for body parts that do not have their own body part values.
8. List the applicable approaches used in the Endocrine and Lymphatic systems.
9. Describe the device values available in the Endocrine and Lymphatic systems.
10. Discuss the use of qualifier values for procedures in Endocrine and Lymphatic systems.

## **Chapter 14**

1. List the basic functions and organization of the integumentary system.
2. Review the anatomy of the integumentary system, including the layers of the skin, the portions of the breast, and parts of the nails.
3. Discuss the common root operations used in the integumentary system.

4. Describe the body part values available in the circulatory integumentary system and the coding guidelines specific to procedures performed on skin, subcutaneous tissue and fascia overlying a joint, and overlapping layers of the musculoskeletal system.
5. Review the procedure used to locate values for body parts that do not have their own body part values.
6. List the applicable approaches used in the integumentary system.
7. Describe the device values common to the integumentary system and some devices that can be totally implanted in subcutaneous pockets.
8. Discuss the use of qualifier values for procedures in the integumentary system, including those for skin graft Replacement and Transfer procedures.

## **Chapter 15**

1. List the basic functions of the Muscular system.
2. Describe the organization of the Muscular system, including muscles, tendons, bursae, and ligaments.
3. Review the anatomy of the Muscular system.
4. Discuss the common root operations used in the Muscular system, including the operations on the tendons, muscles, and bursa.
5. Describe the body part values available in the Muscular system and the coding guidelines for procedures performed on tendons, ligaments, bursae, and fascia versus the joint structures.
6. Review the procedure used to locate values for body parts that do not have their own body part values.
7. List the four available approaches used for the muscles, tendons, bursae, and ligaments.
8. Describe the limited use of device values in the muscles, tendons, bursae, and ligaments.
9. Discuss the use of qualifier values for Transfer procedures of the muscles.

## **Chapter 16**

1. List the basic functions of the bones and joints.
2. Describe the organization of the skeletal system and types of bones and bone markings found in the body.
3. Review the anatomy of the skeletal system including the unique classification method used in ICD-10-PCS for bones and joints.
4. Describe the specific naming convention for vertebral bones.
5. Discuss the types and functions of joints.
6. Discuss the common root operations used in the skeletal system, including the operations on the bones and joints.
7. Describe the body part values available for the bones and joints and the coding guideline for procedures performed on a portion of a body part.
8. Review the procedure used to locate values for body parts that do not have their own body part values.
9. Describe the body part values for combinations of vertebrae.
10. List the four available approaches used for the bones and joints.
11. Describe the use of device values in the bones and joints including internal and external fixation devices.
12. Identify the device value chosen for spinal fusion procedures that use more than one device.

13. Describe the three qualifiers for the specific anatomical approach in spinal fusion surgery.
14. Discuss the use of qualifier and device values for multiple vertebral joints using a different device or qualifier.

## **Chapter 17**

List the basic functions of the Urinary system.

2. Describe the organization of the Urinary system and its major organs.
3. Review the anatomy of the Urinary system, including the portions involved in urine formation and excretion.
4. Discuss the common root operations used in the urinary system including those performed on tubular body parts.
5. Describe the body part values available for the urinary system and the coding guideline for procedures performed on a multiple body parts, bilateral body parts, and “peri” body parts.
6. Review the procedure used to locate values for body parts that do not have their own body part values.
7. List the approaches used for the Urinary system, including those through the skin or via the natural opening.
8. Describe the use of device values in the Urinary system including those for neurostimulators and artificial sphincters.
9. Discuss the use of qualifier for the Urinary system, including those for kidney transplants and bypass procedures.

## **Chapter 18**

1. List the basic functions of the Male Reproductive system.
2. Describe the organization of the Male Reproductive system and its major organs.
3. Review the anatomy of the Male Reproductive system.
4. Discuss the common root operations used in the Male Reproductive system including those performed on the prostate using a variety of methods.
5. Describe the body part values available for the Male Reproductive system and the classification of the urethra in the urinary body system.
6. Review the procedure used to locate values for body parts that do not have their own body part values.
7. List the approaches used for the urinary Male Reproductive system, including open and endoscopic prostate procedures.
8. Describe the use of device values in the Male Reproductive system, including those for tubular body parts.
9. Discuss the use of qualifiers for the Male Reproductive system bypass and transfer procedures.

## **Chapter 19**

1. List the basic functions of the Female Reproductive system.
2. Describe the organization of the Female Reproductive and its major organs.
3. Review the anatomy of the Female Reproductive system including the portions involved in urine and excretion.
4. Discuss the common root operations used in the Female Reproductive system, including those performed on the cervix and vagina.

5. Describe the body part values available for the Female Reproductive system and the total number of codes required for a total abdominal hysterectomy with salpingo-oophorectomy (TAH-BSO).
6. Review the procedure used to locate values for body parts that do not have their own body part values.
7. List the approaches used for the Female Reproductive system, including F, Via Natural or Artificial Opening with Percutaneous Endoscopic Assistance.
8. Describe the use of device values in the Female Reproductive system including value G for Intraluminal Device, Pessary.
9. Discuss the use of qualifiers for the Female Reproductive system, including the source of transplanted ovary (or ovaries) and supracervical for resection of the uterus.

## **Chapter 20**

1. List the components of the products of conception (POC).
2. Describe the relationship of the POC to the female reproductive organs.
3. Discuss the circumstances of ectopic pregnancy and retained POC.
4. Describe the two root operations that are unique to the Obstetrics section: Abortion and Delivery.
5. Discuss the different methods of performing an abortion and the code values associated with the methods.
6. Identify the correct procedure for coding multiple gestation deliveries.
7. Discuss other root operations common to the Obstetrics section.
8. Describe the three available body part values for Obstetrics: POC; POC, retained; and POC, ectopic.
9. Discuss coding Obstetrics procedures directly from the code tables versus using the Index.
10. List the approaches used for the Obstetrics system and the root operations most associated with the approaches.
11. List the three device values available in the Obstetrics section.
12. Discuss the use of qualifiers for the Obstetrics section, including the incision type for cesarean delivery, method of forceps, manual extraction of retained products of conception and procedures performed on the fetus.

## **Chapter 21**

1. List types of procedures coded in the Placement, Administration, and Measurement and Monitoring sections.
2. Describe the character definitions for each of the sections, including those that differ from the Medical and Surgical section.
3. Identify the seven root operations used in the Placement section, including the two that are used in the Medical and Surgical section.
4. Discuss the variety of device values that are available for the Placement section and identify the section that device fitting is coded from.
5. List the three root operations for the Administration section and give examples of each root operation.
6. Discuss character 6 in the Administration section for substance and give examples of types of substances administered.
7. Distinguish between the root operations Measurement and Monitoring in this section and give examples of each root operation.

8. Discuss the approach and qualifier character values for the Placement, Administration, and Measurement and Monitoring sections.

## **Chapter 22**

1. List types of procedures coded in the Extracorporeal or Systemic Assistance and Performance and Extracorporeal or Systemic Therapies sections.
2. Describe the character definitions for both sections, including those that differ from the Medical and Surgical section.
3. Identify the three root operations used in the Extracorporeal or Systemic Assistance and Performance section, distinguishing between Assistance and Performance and the use of Restoration in cardioversion.
4. Discuss the duration values used in the Extracorporeal or Systemic Assistance and Performance section including the three possibilities for mechanical ventilation and urinary filtration duration values.
5. Discuss the meaning of the qualifiers used in the Extracorporeal or Systemic Assistance and Performance section and the methods or devices used to accomplish assistance or performance.
6. List the 11 root operations for the Extracorporeal or Systemic Therapies section, including Perfusion.
7. Discuss the values for the body systems, duration, and 6th and 7th character qualifier values in the Extracorporeal or Systemic Therapies section.

## **Chapter 23**

1. List types of procedures coded in the Osteopathic, Other Procedures, and Chiropractic Sections.
2. Describe the character definitions for each of the sections, including those that differ from the Medical and Surgical section.
3. Identify the single root operations used in the Osteopathic section, Treatment.
4. Describe the method values for Osteopathic procedures.
5. List the two body systems available in the Other Procedures section.
6. Discuss the method values for the Other Procedures section.
7. Distinguish between ICD-10-PCS codes for computer-assisted and robotic-assisted and the primary procedure.
8. List the definition of the sole root operation for Chiropractic procedures, Manipulation.
9. Describe the method values for Chiropractic procedures.

## **Chapter 24**

List types of procedures coded in the Imaging, Nuclear Medicine, and Radiation Therapy sections.

2. Describe the character definitions for each of the sections, including those that differ from the Medical and Surgical section.
3. List and describe the root types for the Imaging section.
4. Describe the types of contrast values available in the Imaging section.
5. Discuss the two qualifier values in the Imaging section.
6. Distinguish between diagnostic and therapeutic Nuclear Medicine.
7. Discuss the root types in the Nuclear Medicine section.

8. Identify the action of the radionuclides in Nuclear Medicine procedures.
9. List the four modalities in the Radiation Therapy section and describe the modality qualifiers.
10. Describe the use of the Intraoperative qualifier in radiation.

## **Chapter 25**

1. List types of procedures coded in the Physical Rehabilitation and Diagnostic Audiology, Mental Health, Substance Abuse Treatment, and New Technology sections.
2. Describe the character definitions for each of the sections, including those that differ from the Medical and Surgical section.
3. List and describe the root types for the Physical Rehabilitation and Diagnostic Audiology section.
4. Distinguish between device fitting, coded in the Physical Rehabilitation section, and device placement, coded in the Placement section.
5. Describe the subdivisions of body system/region in the Physical Rehabilitation section.
6. Discuss the type qualifiers and equipment common to the Physical Rehabilitation and Diagnostic Audiology section.
7. List and describe the root types for the Mental Health section.
8. Describe type qualifiers used in the Mental Health section.
9. List and describe the root types for the Substance Abuse Treatment section.
10. Describe type qualifiers used in the Substance Abuse Treatment section.
11. Identify the last three-character values for all Mental Health and Substance Abuse Treatment codes.
12. Identify the characteristics of the New Technology section and codes.