AI-Assisted Medical Coding and Billing: Applied Practice Course Syllabus

Clock Hours: 10 (*Note:* 10 clock hours accounts only for time spent in the online course, and does not include time spent outside the course or study time. Study time will vary widely per individual.)

Course Length: To be completed at student's own pace within a 4-month period or less. Enrollment date begins at date of purchase. Monthly course extensions may be purchased.

Class Hours: Days/Times Per Week: Online course, independent self-study, no classroom meetings; student may login to the course at their own time schedule, no specific login times. Students may email course content questions to coaching staff.

Certificate of Completion Issued: Yes

CEUs: 10 CEUs upon completion (AAPC certified prior to enrollment; some certifications excluded – see AAPC website for more details.)

Course Description: This course provides healthcare coding and billing professionals with the knowledge and skills to effectively leverage artificial intelligence in their workflows while maintaining compliance and ethical standards. The course explores the foundations of AI technology, differentiating between generative and non-generative models, and examines leading AI platforms used in medical coding, billing, and clinical documentation improvement. Learners will study real-world applications such as procedure and diagnosis prediction, audit support, and AI-assisted documentation review. Emphasis is placed on regulatory considerations, HIPAA compliance, ethical safeguards, and the essential role of human oversight. Through hands-on prompting exercises and case studies, participants will learn to design effective AI interactions, refine outputs, and integrate AI responsibly into revenue cycle management processes.

Course Objectives:

- Explain the core principles of artificial intelligence, including types of AI and their applications in healthcare coding and billing.
- Evaluate the capabilities, limitations, and comparative strengths of leading AI platforms for medical coding and documentation support.
- Apply HIPAA-compliant and ethically responsible practices when using AI-assisted tools in healthcare workflows.
- Develop effective prompt engineering strategies to optimize AI outputs for coding, billing, and audit functions.
- Integrate AI solutions into real-world coding and revenue cycle processes while ensuring accuracy, compliance, and human oversight.

Course Content:

- Foundations of AI in Healthcare and Coding
- Compliance, Ethics, and AI Safeguards in Medical Coding
- Prompting, Practice, and Real-World Applications

Methods of Evaluation:

The instructional methods used include:

- Reading assignments – These readings are carefully designed at equipping students with the foundational knowledge necessary for understanding the basics of patient navigation.
- Check your understanding quizzes – These are concise assessments designed to gauge your comprehension and retention of the material covered in the readings. They serve as an effective tool to reinforce learning, identify areas for improvement, and ensure you are on track with your understanding of the subject matter.
- Interactive lectures – These are dynamic and engaging educational lectures focused on discussing specific topics and applying coding skills in a practical context. They are designed to foster active learning through participation, thereby enhancing their understanding and proficiency in patient navigation.
- Review Exam – This is a comprehensive evaluation designed to gauge your summative understanding of the chapter's topics. It also serves as a practical exercise in managing time during an assessment. It's an opportunity to reflect on your learning journey, identify areas of strength, and pinpoint topics that may require further study.

Grade Calculations:

Successful course completion includes:

- An attempt of all required assignments
- A passing score of 70% or higher on all chapter exams
- A passing score of 70% or higher on the final exam
- An overall final course score of 70% or higher

No reduced hours in the course or tuition discount for previous education or training will be granted.

Your final score is based on the following calculations:
Total average of Check Your Understanding quizzes - 30%
Total average of Chapter Review Exams - 35%
Final Exam - 35%

To receive the certificate of completion, it is required to complete all Chapter Quizzes and achieve a passing score of at least 70% on all Chapter Review Exams, on the Final Exam, and in the course overall. To receive a certificate of completion, students must successfully complete the course within the allotted time frame of 4 months or less (monthly extensions may be purchased).

Included Textbooks:

1. 2025 AI-Assisted Medical Coding and Billing: Applied Practice - Training Manual; AAPC; AAPC publisher

Course Enrollment Fee: Payment is due in full at time of enrollment. Fees listed do not include any required or recommended textbooks/supplies or computer requirements, which are to be purchased separately by the student. Prices are variable and subject to change, see AAPC website for most current enrollment fees: https://www.aapc.com/training/cpc-complete-training-package.aspx