Health Care Financing

This course provides learners with an overview of the market for health care services and the primary financing mechanisms for the delivery of services in the U.S. health care system. An overview of the various programmatic payment options are covered as well as their impact on the organizational structure of the sector. Various organizational structures and reimbursement incentive schemes are presented, using Accountable Care Organizations as an example, as well as others. No prior knowledge of the topic is required.
Course duration 4.5 hours

Health Care Economics

This course provides learners with an overview of the market for health care services. Learners are provided with in depth insight into the economic relationships among providers of services (e.g., hospitals, physicians and other professions or organizations), and the role of financing agents (i.e., Medicare, Medicaid, Military, Veterans Administration, commercial insurers, self-insured companies and individuals). No prior knowledge of the topic is required.
Course duration 4.5 hours

Fundamentals of Health Insurance

This course provides learners with an overview of the concepts and terminology of the health insurance industry. Learners are provided with an comprehensive overview of various health insurance categories, both public and private sector, as well as the role of risk assessment in determining health insurance premium rates and community ratings. Also included is an over-view of health insurance regulation. No prior knowledge of the topic is required.
Course duration 4.0 hours

Big Data and Health Care Analytics

This course provides learners with a comprehensive overview of the use of econometric anal-yses in the analysis of large-scale health care databases. Learners interested in acquiring the skills necessary to analyze hospital level data, as well as public use datasets such as the MEPS, NHIS, CPS, SIPP and similar datasets will find this course very useful. No prior knowledge of programming or statistics is required.
Course duration 4.5 hours

Health Care Predictive Analytics and Forecasting

This course provides learners with a comprehensive overview of the methods by which patient level data is de-identified, cleaned, modeled, analyzed and interpreted. Both cross-section and time-series data will be covered. The learner is provided with detailed information on converting data from one file-type to another, in order to make the information machine readable across various statistical packages. No prior knowledge of statistics or programming in required.
Course duration 5.0 hours

Health Care Organizations

This course introduces learners to management and leadership roles in health care organiza-tions, the skills and competencies necessary for effective health services management, and the industrial organization of the health care sector. Learners will gain insight into the role of mo-nopolies, oligopolies monopsonies and the economic rationale for the formation of organizations such as PPOs, IPAs, HMOs and other organizational forms. No prior knowledge of the topic is required.
Course duration 3.5 hours

Understanding Health Care Information Systems & Security

This course provides learners with in depth coverage of the data gathering processes within health care organizations, and the use of such information for improving patient outcomes and organizational efficiency. Electronic Health Records (EHR), their evolution and applicability in the market is covered within the context of this course. The course also provides an overview of information security as it pertains to the health care sector, to include security risk mitigation strategies and developing a long-term road map for implementing effective cyber-security measures. No prior knowledge of the topic is required.
Course duration 5.0 hours

Python Programming with Applications

This course introduces learners to the basics of Python programming techniques and their statistical applications. Learners are provided with an overview of descriptive statistics, multivar-iate statistics and predictive analytic techniques using Python. The course begins with an over-view of the Python development environment, to include methods of setting up the environ-ment. No prior programming experience is required.
Course duration 6.5 hours

HIPAA and HITECH Compliance Rules

This course provides the learner with a comprehensive overview of the Health Insurance Porta-bility and Accountability Act (HIPAA) of 1996, as well as the Health Information Technology for Economic and Clinical Health (HITECH) Act of 2009. Each Act stipulated key provisions for adoption, security and protection of patients' electronic health information.
Course duration 3.0 hours

ICD-10, HCPCS and CPT Coding Rules

This course covers the historical evolution of ICD-10, HCPCS and CPT coding rules. The course provides the learner with a hands-on practical approach to each coding systems, with particular emphasis on developing optimal coding techniques for dentists, physicians and op-tometrists. The course is ideal for practitioners and their coding personnel. No prior knowledge required.
Course duration 4.0 hours

Programming and Forecasting with R

This course introduces learners to the R programming language. This course provides the learner with a step-by-step, gradual introduction to R.   Some basic statistical applications will be provided as part of the course. No prior programming experience is required.
Course duration 7.5 hours

STATA Programming with Applications

This course provides learners with an introduction to STATA programming techniques. The course emphasizes the use of STATA applications and the importation and analyses of large-scale databases. Statistical topics covered include descriptive analysis, predictive analysis, cross section and time-series analysis.. No prior knowledge required.
Course duration 6.0 hours

Econometrics and Statistical Forecasting

This course provides learners with an introduction into the economic techniques utilized for analyzing large-scale databases, and the various techniques employed for forecasting based upon time-series data and pooled cross-sectional data. No prior knowledge of economics or statistics is required.
Course duration 4.0 hours

Qualitative Research Design and Program Evaluation

This course provides an overview of qualitative research methods and their applications to program evaluation. Learners will gain insights into the unique aspects of qualitative research as it pertains to public policy analysis and program evaluation. Methods of random assignment are discussed. No prior knowledge required.
Course duration 6.0 hours

Social Media Data Analytics

This course covers the various methods by which the vast array of data generated by social media (SM) platforms can be compiled, analyzed and interpreted. The course covers several of the most popular SM platforms such as Facebook, Twitter, LinkedIn, Instagram, and Pinter-est. This is not a theoretical course, it is an applied course that delves into the SM analytics of each platform. No prior statistical knowledge or platform knowledge is required.
Course duration 4.0 hours

Data Visualization with Tableau

This course introduces learners to Tableau, its use in constructing dashboards and scorecards for analyzing and presenting critical performance and operational data. The learner will use these skills for translating business objectives into quantifiably measurable and visually achieva-ble goals.
Course duration 4.0 hours

Essentials of Organizational Leadership

This course provides learners with a comprehensive overview of leadership, critical thinking, conflict management and methods of inquiry as they pertain to leadership theory and its applica-tions. Leadership ethics, competencies, effective communications, as well as group and individ-ual leadership skills are presented and applied to real-world applications. No prior subject matter knowledge is required.
Course duration 3.5 hours

Human Resource Management & Employment Regulations

This course provides learners with a comprehensive overview of personnel management, conflict resolution, compensation and benefits, diversity and inclusion as applied to human resources, talent acquisition planning, strategic planning for HR divisions, and social media application in talent acquisition. No prior knowledge of the subject matter is required.
Course duration 5.5 hours

Human Resource Management

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Course duration 5.5 hours

Essentials of Computer Information Systems & Security for Managers

This course focuses on the applications of information security fundamentals to the workplace and is specifically designed to highlight issues of concern for managers. The course covers database management, information assurance planning guidelines and documents, information assurance assessment, and internet security architectures. A key feature of the course is to provide learners with an in depth overview of the interplay between hardware and software in order to enhance their understanding of modern computer systems. No prior knowledge of the subject matter or programming is required.
Course duration 7.0 hours

Business Accounting Applications for Managers

The course teaches learners the principles of accounting, as they pertain to day-to-day business decisions. This course highlights the importance of transactions analysis and proper recording of transactions as essential elements of an effective business accounting system. GAAP rules, and obtaining a solid foundation in debits and credits, understanding financial statements and their interpretations from a business perspective are covered in detail. No prior knowledge required.
Course duration 6.5 hours

Fundamentals of Nonprofit Management

This course provides the learner with a comprehensive overview of the particular aspects of nonprofit management, as it pertains to private and public entities. The course covers the organizational structure of nonprofits, nonprofit financial statements and ratios, budgeting, financing, cash flow accounting, fundraising and key IRS reporting rules. No prior knowledge of the topic required.
Course duration 6.0 hours

Technical Writing for Professionals

This course prepares learners with detailed insight into the structure, techniques, effectiveness and communications strategies for mastering technical writing skills. Topics covered includes preparing to write, effective data gathering efforts, an overview of traditional technical writing conventions (such as parallel structure, lists and effective headings), editing, proofreading and determining the most effective channel for communicating one's findings. No prior knowledge required.
Course duration 6.0 hours

Essentials of Marketing Management

This course provides learners with a comprehensive overview of the theory and practice of marketing strategies. The theories and applications of marketing management analytics, entrepreneurship, competition, consumers' preferences, advertising and pricing. No prior knowledge required.
Course duration 4.5 hours

Social Media Marketing Analytics

This course prepares learners with the abilities to identify and quantify the competitive advantages that results from leveraging marketing analytics as a key business strategy. The course covers methods for quantifying consumer value, individual preferences, market segmentation, targeting and pricing as they pertain to social media marketing and communications channels. Methods for estimating SM ROI is included in the course. No prior knowledge of the topic is required.
Course duration 4.0 hours

Fundamentals of Business Analytics

This course provides learners with a comprehensive overview of data analytics as it pertains to the business sector. Topics covered include data mining, descriptive analytics, predictive analytics and prescriptive analytics. The learner will develop the skills necessary to apply basic business analytic methods and most importantly how to effectively communicate their results to decision makers. No prior knowledge of the topic is required.
Course duration 5.0 hours

Advanced Business Analytics

This course provides learners with an advanced treatment of business analytic techniques. Data visualization, sampling techniques, multivariate regression analysis (to include probit and logit analyses) will be covered. The course will focus on the applications of these techniques for inventory control, forecasting staffing needs and product sales. The course assumes basic knowledge of business analytics concepts. Prior knowledge of business analytics fundamentals recommended but not required.
Course duration 6.5 hours

Economics for Business Strategists

This course provides learners with comprehensive insight into the means by which economic principles are integrated with business concepts and strategic choices. The course covers economic methods, and their applications in the micro- and macroeconomic environments. Businesses' scales of operation, internal and external markets, transactions cost economics and its applications to corporate governance are covered, as well as financial markets, competitiveness and the role of emerging markets on business decision making. No prior knowledge of economics is required.
Course duration 5.5 hours

About Health and Social Sector Analysis (HSSA)

Health and Social Sector Analysis (HSSA) is a data analytics and social media strategy company. We specialize in assisting clients in determining their short and long-term market strategies by employing advanced economics, finance, statistics, management and social media marketing tools. Our Electronic Language Integrated Application System (ELIAS) consists of several components that assists clients in the optimal management of their businesses and the delivery of services to their patients and customers. In addition to the ELIAS social media management platform, other services offered consists of the: ELIAS predictive analytics and forecasting system provides clients with the analytic rigor to anticipate changes in patients' behaviors through price changes, prior utilization patterns, demographic attributes and other factors; ELIAS survey system provides clients the ability to conduct customized online surveys; while the ELIAS academy provides customized online courses for clients. All courses are designed and taught by current or former university professors.

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