



COURSE CATALOG



CPM Academy is a professional development and specialized education provider organized as a division of CPM. CPM is a project management and technical consulting firm ranked among the Top 100 Professional Services firms in the U.S.

CPM Academy was created to partner with organizations to provide specialized courses in the fields of Project/Construction Management, Safety, OSHA, Public-Private Partnerships, and Project Controls, among others. CPM Academy's courses are offered by seasoned practitioners in the fields of Engineering, Construction, and Infrastructure Projects in general. The Academy offers its courses and training all year long to any individual who needs continuous education credits, to improve their knowledge and professional portfolio, among others.

CPM Academy's Courses are offered in Classroom settings, Online and by Virtual Instructor-Led Sessions. The Online and Virtual Courses are taught through a Learning Management Platform where students or clients can access all the material, presentations, tests, exercises, communicate with teachers and other students, among other features.



This Platform also has a feature called Branches which creates customized Platforms. These Branches are specific for a particular group or client, with the courses or catalog of courses adjusted to each group's needs.

CPM Academy is certified as a Continuing Education Provider by the Florida Board of Professional Engineers (FBPE). In addition, CPM Academy is also a certified Continued Education Provider by the College of Engineers and Land Surveyors of Puerto Rico (CIAPR).

CPM ACADEMY

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OUR INSTRUCTORS



JANICE ADORNO, LEED AP

SAFETY & OSHA PRINCIPAL LECTURER / TRAINER

Mrs. Adorno has twenty (20) years of experience as a safety and environmental professional for various industries, including the water infrastructure, pharmaceutical/manufacturing plants, wind mill and chemical industries, among others. Adorno has been responsible for the development of corporate Safety Programs to meet Federal and State compliance policies, conducting trainings related to Occupational Health and Safety 1910 and 1926 Standards, and conducting safety and environmental site compliance for construction and industrial clients.

Adorno is an OSHA authorized trainer for the General and Construction Industry and Overhead and Gantry Crane Trainer. In addition, Adorno provides consulting services for sustainable design and construction. She has been invited as spokesperson by numerous developers to cover safety topics targeted to contractors and employees. In addition, she leads CPM Academy.



DAVID BAERGA

SAFETY & OSHA LECTURER / TRAINER

Mr. Baerga has thirteen (13) years of experience as a safety professional for the pharmaceutical, manufacturing and infrastructure industries. He has been responsible for leading safety personnel at project site, performing inspections of construction projects, and ensuring compliance with the environmental, health and safety regulations and with the projects' safety plan. Accountable for assessing site hazards and ensuring the implementation of appropriate and prescribed controls as well as training personnel on safety regulations. He is an OSHA Authorized Trainer for the Construction Standard and is a Competent Person in scaffolding & cranes.



SHARYL BORGES

SAFETY & OSHA LECTURER / TRAINER

HOMELAND SECURITY LEVEL III

Mr. Borges has twenty-five (25) years of experience in the occupational health and safety field. He has been responsible for the implementation of safety programs to comply with government regulations and corporate standards. He has been accountable for safety training, safety inspections and safety reports in multiple construction sites, legal administration of corporate safety and security plan, coordination of emergency responses, as well as purchases and selection of appropriate personal protective equipment. In addition, he is OSHA Authorized Construction and General Industry Trainer.

Environmental, Health and Safety



GRISEL ORTIZ

SAFETY & OSHA LECTURER / TRAINER

Mrs. Ortiz has eighteen (18) years of combined experience as Project Control Specialist, EHS Coordinator, EHS Technician, Document Control and Administrative Assistant. As part of her career development, she was assigned to the EHS Department in 2009. As EHS Coordinator, she has been accountable for ensuring safety compliance, safety tool meetings, preparing safety inspection reports, metrics, safety programs and procedures, accidents investigations, non-compliances and post-construction assessment to the clients. In addition, she is an OSHA Authorized Construction and General Industry Trainer.



LIZAIDA MORALES DÍAZ

SAFETY & OSHA LECTURER / TRAINER

Ms. Morales is an environmental engineer with thirteen (13) years of experience in the environmental, safety and health field for the construction industry. She is certified with 30 hours in both the Construction and General Industries Safety & Health. Furthermore, she is certified as an OSHA Authorized Construction Trainer. Knowledge in RCRA and Title V permitting, Safety federal and local regulations and laws, Environmental federal & local regulations and laws, Inspection of CES Plan, SWPP Plan, SPCC Plan, Environmental inspection and audits, Safety inspection and audits and Safety trainings.

Project Management



YAMIL D. CIRINO, PE, PMP, MSIE

PROJECT MANAGEMENT LECTURER / TRAINER

Mr. Cirino has twenty-nine (29) years of experience managing and implementing construction projects for biotechnology, industrial, research, pharmaceutical, medical devices, healthcare, commercial and infrastructure projects. Mr. Cirino started his career at CPM as Project Engineer evolving through several positions as Project Manager, Senior Project Manager, Business Unit Director, and VP of Field Operations. Currently, as COO, he is accountable for overseeing day-to-day operations and ensuring companywide alignment with growth & development strategies. In addition, he provides direct technical advice to several clients in the pharmaceutical, commercial and infrastructure sectors.



VANGIE LÓPEZ, PE, LEED AP+

PROJECT MANAGEMENT LECTURER / TRAINER

Mrs. López has over thirty-seven (37) years of experience in the construction and project management field. She has been responsible for planning, coordination and supervision of design, construction activities, management of procurement and expediting of contracts and equipment. She has been in charge of mechanical and process design of retrofit and new facilities, and has acted as owner representative in the management of a variety of projects ranging from a small retrofit of an essential process and design of process piping and equipment to the construction of a complete facility. She has managed projects as owner representative and under all of the mainstream project delivery methods of Design-Bid-Build, Design-Build and Construction Management at Risk.



JOSÉ A. SOTO MAYSONET, MEM

LECTURER / TRAINER

Mr. Soto has thirty (30) years of experience in construction management for biotechnology, pharmaceutical (formulation & packaging), chemical plant, and general manufacturing industries, as well as utilities (plant and clean) projects. He has been responsible for leading and managing capital projects and construction activities. Also leads maintenance facility activities and utilities operations. He was a former lecturer for construction management courses for the Civil and Environmental Engineering Department at the Polytechnic University of Puerto Rico and the University of Turabo. In addition, he is an OSHA Authorized Construction Trainer.

Project Management



PEDRO PABLO ROSA, PMP

PROJECT MANAGEMENT LECTURER / TRAINER

Mr. Rosa is a civil engineer with twenty-seven (27) years of experience in construction management for projects in the private and public sectors. He has been responsible for coordination of construction activities, daily jobs, supervising field employees, project documentation, quality assurance inspections and revision of shop drawings. He has a strong background in civil projects and cost estimates, and provides support as part of CPM's Estimating Department.



ROLANDO CARO

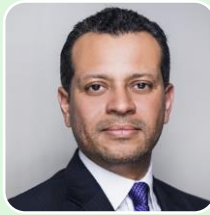
LECTURER / TRAINER

Mr. Caro is an industrial engineer with twenty-five (25) years of experience in laws and permit requirements for construction projects. He has been responsible for the development of permitting strategies, review and implementation of field inspections to determine compliance with the regulations and permits of government agencies.

Specialized Courses

DAVID ÁLVAREZ, MURP

PUBLIC-PRIVATE PARTNERSHIPS & ALTERNATIVE PROCUREMENT



Mr. Álvarez is an infrastructure professional with 13 years of experience in project finance, public private partnership (P3s), project development, public sector procurement, project transactions, capital markets, corporate strategy and economic analysis. Mr. Alvarez is adept at addressing public policy issues related to the execution of major P3 projects, coordinating procurement procedures, managing multidisciplinary project teams, and engaging in solving commercial and technical issues associated to P3 projects. He has hands-on experience in formulating, procuring and financially closing infrastructure P3 projects. Mr. Alvarez is an active participant in US P3 events and has served as speaker in numerous P3 conferences.

MIGUEL RIVERA BARBOSA, EIT

LECTURER / TRAINER



Mr. Rivera has nineteen (19) years of experience in project management for a variety of industries, including pharmaceutical. He has been responsible for managing capital projects from the design phase through commissioning, start-up and turnkey. He has been accountable for permitting, project inspection, evaluation of purchase orders and certifications, supervision, change controls and coordination of capital projects. In addition, he has been responsible for trades management, procurement & expediting (SAP), inspection of control and instrumentation equipment installations.

JOSÉ SANTIAGO APONTE, EIT

LECTURER / TRAINER



Mr. Santiago is a civil engineer with twenty (20) years of experience in construction management for water, wastewater and road infrastructure projects, as well as pharmaceutical projects. He has been responsible for scheduling, budgeting & estimation, submittal processing, cost control, project coordination and inspection, and monitoring of change order management as well as payment requisition processing. In addition, he has been accountable for monitoring CQC system for various government projects. Mr. Santiago is a Subject Matter Expert in corrosion control management and protective coating. He is certified as NACE Inspector CIP Level 2 and Protective Coating Specialist, and has seven (7) years of experience in these areas.

Specialized Courses



ANGEL PANTOJA TORRES, March

LECTURER / TRAINER

Mr. Pantoja is an architect with thirty-four (34) years of experience providing professional design and project management services at corporate, institutional, public and private settings. He has been responsible for design-build development, space planning, construction supervision and facilities management. During construction supervision, he has been accountable for revision and approval of General Contractors' submittals, value engineering and weekly site visits. Fully Bilingual in English and Spanish.

Environmental, Health and Safety

COURSES AND TRAINING DESCRIPTIONS



10-HOUR GENERAL INDUSTRY OUTREACH TRAINING

Purpose

This training program is intended to provide entry level general industry workers information about their rights, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid and prevent job related hazards on a job site.

The training covers a variety of general industry safety and health hazards which a worker may encounter. Training should emphasize hazard identification, avoidance, control and prevention, not OSHA standards.

30-HOUR GENERAL INDUSTRY OUTREACH TRAINING

Purpose

The 30-hour General Industry Outreach Training Program is intended to provide a variety of training to workers with some safety responsibility. Training should emphasize hazard identification, avoidance, control and prevention, not OSHA standards.

10 HRS. CONSTRUCTION INDUSTRY OUTREACH TRAINING

Purpose

This training program is intended to provide entry level construction workers information about their rights, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid and prevent job related hazards on a construction site. The training covers a variety of construction safety and health hazards which a worker may encounter at a construction site. Training should emphasize hazard identification, avoidance, control and prevention, not OSHA standards.

30 HRS. CONSTRUCTION INDUSTRY OUTREACH TRAINING

Purpose

The 30-hour Construction Outreach Training Program is intended to provide a variety of training to workers with some safety responsibility. Training should emphasize hazard identification, avoidance, control and prevention, not OSHA standards.





Hazard Communication (HAZCOM)

Purpose

Designed to help employers provide effective training to employees who are exposed to hazardous chemical, as required by the OSHA New Hazard Communication Standard 2012. The goal is to explain and reinforce the information presented to employees through the written mediums of labels and safety data sheets, pictograms, and to apply this information in their workplace.

Managing Safety

Purpose

This training is designed to help employers in the development of Safety Programs. Effective Safety and Health Management Systems (SHMS) have proven to be a decisive factor in reducing the extent and severity of work-related injuries and illnesses.



Recordkeeping

Purpose

The objective of this training is to provide an in-depth discussion of OSHA's recordkeeping rule. This presentation is intended for audiences that require a thorough understanding of the regulation. At the end of the training session, participants should be able to explain the requirements of the regulation.

Confined Space (General / Construction Industry)

Purpose

Designed to learn about what is a Confined Space and a Permit Required Confined Space. Identify the different hazards that may be found in a PRCS and different control methods. They will know what the tools, safety equipment and personal protective equipment are needed to make a safe entrance to a PRCS. They will also learn the duties and responsibilities of PRCS entry team members.





Excavation and Trenching

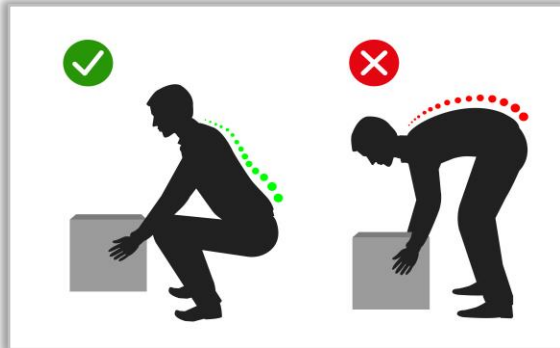
Purpose

Designed to learn about what is a Confined Space and a Permit Required Confined Space. Identify the different hazards that may be found in a PRCS and different control methods. They will know what the tools, safety equipment and personal protective equipment are needed to make a safe entrance to a PRCS. They will also learn the duties and responsibilities of PRCS entry team members.

Scaffolds

Purpose

Training directed to learn to identify different types of hazards in scaffolds. The participants can fortify their know-how of this equipment and enhance safety awareness. This course covers the basics of scaffolds safety, including scaffolds recognition, types of scaffolding dangers, proper scaffolding use and accident prevention.



Ergonomics for Engineers

Purpose

Training directed to engineers with the purpose of knowing what ergonomics is; understand the design criteria and the application of these according to the models. In addition, the participants will learn to develop the ergonomics program and its implementation.

Accident Investigation

Purpose

This training is to assist employers and workers in conducting effective incident investigations and to develop corrective action plans. Investigating a worksite incident provides employers and workers the opportunity to identify hazards in their operations and implement the corrective actions necessary to prevent future incidents.





Corrosion

Purpose

This course will help to recognize and understand corrosion, and also will help construction personnel to know how to monitor and/or control corrosion. The course is designed for: Engineers, Designers, Inspectors and Managers.

Respiratory Protection

Purpose

This training is for any employee or manager in a workplace where respirators are used on a mandatory or voluntary basis and they need to learn how to protect themselves from airborne contaminants in the workplace. Employees will learn Respiratory Protection Program (RPP) components.



Respirable Crystalline Silica

Purpose

This training is to assist employers and employees understand silica hazards, risk factors and how to work safely with construction materials containing silica. Also, the participants will know the new regulation of respirable crystalline silica.

Fall Protection

Purpose

Train employees on safe practices to avoid falls in construction or general industry. This training is to assist employers and workers in hazard recognition and the care and safe use of equipment such as ladders and scaffolds, and fall protection systems. This program is emphasized for work at height, such as ceilings, un protected edges, among others.





Temporary Traffic Control Safety Training

Purpose

The purpose of this course is to provide minimum training required to safely work on roadways. The topics that will be discussed are:

- Need for Work Zone Traffic Control
- Importance of Work Zone Traffic Control
- Worker's Responsibilities
- Worker Safety
- Parts of Work Zone Traffic Control Zone
- Temporary Traffic Control Devices
- Temporary Traffic Control - Design and Layout
- Typical Field Layout - Installation and Removal

40 HAZWOPER Training

Purpose

Intended to those employees who will be performing any hazardous waste operation and emergency response. Participants will learn about the risk of hazardous materials. They will obtain the knowledge of all safety measure to avoid contact with hazardous materials include the use of personal protective equipment for emergencies. They will learn about the work practices to minimize employee risk from site hazards and the procedure of decontamination.

HAZWOPER Refresher

Purpose

Intended to those employees who will be performing any hazardous waste operation and emergency response and needs annual refresher. Participants will review the risk of hazardous materials and safety measure to avoid contact with hazardous materials. Includes the use of personal protective equipment for emergencies situations. They will review the work practices to minimize employee risk from site hazards and the procedure of decontamination.

HAZWOPER Training for Supervisors

Purpose

Intended to those supervisors who inspections any hazardous waste operation and emergency response. Participants will review the risk of hazardous materials and safety measure to avoid contact with hazardous materials. Includes the use of personal protective equipment for emergencies situations. They will review the work practices to minimize employee risk from site hazards and the procedure of decontamination.





CPR and First Aid

Purpose

This course will teach how to recognize cardiac arrest, ask for help, and provide first aid to a person until advanced medical care arrives at the scene. In addition, the course also covers the use of Automated External Defibrillator (AED) and how to perform Cardiopulmonary Resuscitation (CPR) in adult, child and infant choking victims. The course is designed to prepare participants to provide first aid techniques, CPR and learn to use an AED in a safe, timely and effective manner.

CPR for Kids

Purpose

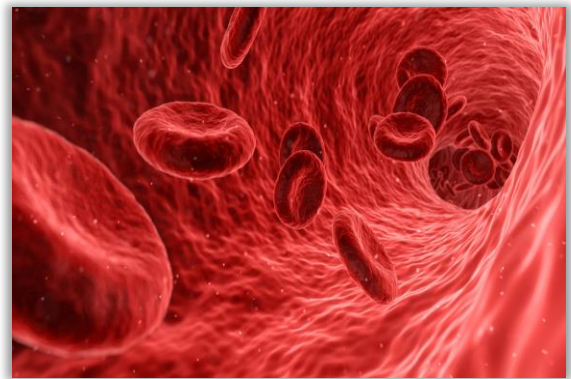
This course will teach children how to recognize cardiac arrest, ask for help, and provide Cardio Pulmonary Respiratory (CPR) to a person until medical care arrives on the scene. The course will cover: how to ask for help calling 911, how to help a person during a medical emergency, steps to follow to administrate a Cardio Pulmonary Resuscitation (CPR) and to know how to recognize and assist a person from choking.

Blood pathogens

Purpose

In compliance with OSHA 29 CFR 1910.1030 regulations, this training is required for individuals who have a role with bloodborne pathogens. This training must be taken for professionals engaged in working with items or materials that come in contact with blood.

The purpose of this training is to identify the appropriate kinds of facilities where bloodborne pathogens may be encountered, discuss work practices for reducing exposures, and the proper management of bloodborne pathogen agents.



Fire Protection and Emergency Plan

Purpose

This training is to prevent a fire from occurring in a workplace. It describes the fuel sources (hazardous or other materials) on site that could initiate or contribute both to the spread of a fire, as well as the building systems, such as fixed fire extinguishing systems and alarm systems, in place to control the ignition or spread of a fire. Also, employees will be trained in the safe and orderly emergency evacuation of employees. The training duration will be approximately 4 hours.



RCRA & DOT

Purpose

DOT

In compliance with the U.S. Department of Transportation (DOT) regulation 49 CFR 172.704, this training is for individuals who handle, manage, transport, or ship hazardous materials/waste. This includes employees who load, unload, and handle hazardous materials; select, mark, label, or modify containers or packaging; prepare materials for shipping; prepare shipping papers; are responsible for the safety of hazardous materials during shipment; and vehicle operators.

RCRA

In compliance with U.S. EPA regulations, this RCRA training is for individuals who deal with or manage hazardous waste. This training must be provided for these employees at the start of their job and on an annual basis.

Forklift / Aerial lift

Purpose

This training program is intended to those employees who will be performing activities to operate aerial and scissor lifts. The majority of aerial lift accidents are the result of operator error, which means that operators were not prepared or properly trained to recognize and avoid hazards. Untrained workers are a serious liability and are much more likely to cause accidents that lead to injuries and fatalities. Only trained workers should be allowed to operate aerial lifts and scissor lifts.



Active Shooter Awareness

Purpose

This program is aimed at employees who will have to protect themselves or respond during an active shooting. Participants are educated about the prevention, preparation, planning, response and development of preparedness plans in an active shooter situation.

Crane Awareness

Purpose

This course will provide an awareness of the different types of cranes available, the new regulation requirements for operators, riggers and flagman. Also, how to evaluate a lifting plan and the necessary information to prepare one. It covers a summary of the new regulation in the Construction Standard, the types of cranes, how to prepare a lifting plan, how to determine the crane capacity for a specific lifting and hazards awareness of cranes. This course also explains the requirements for operators, riggers and flagmen.



Project Management



PMP® 35 Hours Preparatory Course

Purpose

Provides participants with a theoretical and practical knowledge as well as proficiency in the use of tools that are essential to plan, organize, supervise, lead and motivate the resources with the effectiveness required to achieve all the objectives in terms of quality, time, cost, performance and ultimately overall efficiency.

PMP® Study Group

Purpose

It is targeted to people who already took or are taking a 35-hour PMP® Preparatory Course. Participants will be provided with practice tests. Study techniques and lessons learned will be shared in order to successfully pass the test and be certified as PMP®. Support with the preparation of the “Experience Matrix” and exam application will also be provided.

Project Management 101

Purpose

This course provides participants with a theoretical and practical knowledge as well as proficiency in the use of tools that are essential to plan, organize, supervise, lead and motivate the resources with the effectiveness required to achieve all the objectives in terms of quality, time, cost, performance and ultimately overall efficiency.



Permitting, New Processes & Strategies

Purpose

This course introduces the public to the general knowledge about the new permitting processes, their cybernetic tools, their applicable laws and regulations and the design of strategies to obtain them, among others. The objective of this course is to obtain general knowledge of the permits required in a construction project in accordance with the laws and regulations of Puerto Rico.

Scheduling and Cost Management

Purpose

This course is intended to provide participants with a basic understanding of the importance of monitoring and controlling these constraints for the success of your projects. It explains concepts, tips, facts, tools and techniques for the effective management of the projects in terms of scheduling and costs.



Construction Management

Purpose

Participants will be exposed to the basic elements of the industry and will learn to combine technical knowledge with professional skills to succeed in today's construction industry.

The Bid Process Training Course

Purpose

The goal of this course is to learn about the requirements of a bidding process in a construction project. Various bids will take place along the duration of a construction project. Equipment purchases and construction trades contracts bids process has methods that have shown to be successful. This course will introduce the newer member of the team to this process and reinforce the knowledge for the already experienced ones.



MS Excel for Project Managers

Purpose

This course provides participants with a practical Excel knowledge (analysis tools and visualizations) to monitor the execution of one or more projects. The course will also include multiple visualizations for tracking projects such as Gantt and Burn Down charts.

Specialized Courses

MS Excel (All Levels)

Purpose

Microsoft Excel is a spreadsheet application that features calculation, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications. It also enables users to store, organize, calculate and manipulate the data with formulas. Basic, Intermediate and Advanced levels of the program will be offered.



Data Visualization & Infographics

Purpose

This course introduces on how to create effective, interesting and useful information and data to clients. The topics are: the use of graphics, the use of colors, how to present the data in a creative and visual way and how to create a dashboard.

Design Considerations for Office Space

Purpose

This course will provide a basic knowledge of the importance to create a space that meets the needs of the user who will occupy the area for a specific period. Applicable codes, infrastructure or specifications and open spaces, will be discussed among other topics.





Preparation for Drones Certification

Purpose

During this course the participant will learn about the compliance requirements established by the FAA for the recreational or commercial operation of these equipment. The course covers all the necessary concepts so that the participant can take and pass the technical knowledge test required by the FAA to obtain the Drones commercial pilot certificate. Some of the topics to discuss are FAA regulations, classification of airspaces, flight restrictions, flight plans and risk analysis, meteorological conditions, among others.

Energetic Efficiency

Purpose

This course will provide participants with the knowledge necessary to reduce energy consumption optimizing the use of resources and equipment available on the market. This course will provide awareness of the environmental impact and problems involved in the use of fossil fuels, generate interest for removable energies as an alternative to the traditional energy system, making energy efficiency a cultural and citizen value and learn how with simple applications we can be more efficient and therefore save energy.



Fundamentals of Public-Private Partnerships (PPP) for Infrastructure Projects

Purpose

Provide a discussion and professional education about the fundamentals of public-private partnerships as a procurement and delivery method for infrastructure projects.

*CPM Academy offers fully bilingual OSHA Authorized Trainers,
PMP professionals and industry experts in their field of expertise.*

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