

Short Courses Program and Certifications

August - December 2008

The Polytechnic University of Puerto Rico is an authorized provider of Continuing Education for Engineers and Land Surveyor, approved by the "Colegio de Ingenieros y Agrimensores de Puerto Rico" (CIAPR). The CIAPR accredits five continuing education units for each course. The architecture related courses are approved by the "Colegio de Arquitectos y Arquitectos Paisajistas de Puerto Rico" (CAAPPR). The courses will be offer in spanish language.

24 New Courses!



Fast and easy registration by phone or fax
Tels. 787-622-8000 exts. 429, 470 / 787-758-7915

ACTIVITIES	DATE	DAY	HRS	TIME	*COST
Civil Engineering: Construction Management					
Quality Control in Asphalt Pavements	Sept. 5	F	7	8:00am-5:00pm	\$200.00
The Process of Forced Expropriation: Important Aspects for Engineering and Surveyor	Sept. 19, 20	FS	7	8:00am-12:00m	\$200.00
Construction Cost Estimating NEW!	Sept. 20, 27 Oct. 4, 11, 18, 25	S	24	8:00am-1:00pm	\$520.00
Understanding Construction Drawing NEW!	Sept. 26 Oct. 3, 10	F	21	8:00am-5:00pm	\$450.00
New Seismic Provision in Building Structural Design	Oct. 10	F	7	8:00am-5:00pm	\$200.00
Critical Path Method (CPM) Construction Scheduling NEW!	Oct. 17, 24, 31	F	18	8:00am-4:00pm	\$390.00
The Construction Inspector and the Contract: Legal Aspects	Nov. 1, 8	S	14	8:00am-5:00pm	\$300.00
Design of Shear Walls for Earthquake Resistance	Dec. 5	F	7	8:00am-5:00pm	\$200.00
Industrial Engineering and Management					
Lean Manufacturing NE	Sept. 26 Oct. 3	F	14	8:00am-5:00pm	\$380.00
Sales and Strategic Management of Industrial Clients NE NEW!	Sept. 27	S	7	8:00am-5:00pm	\$200.00
Introduction to Minitab NE	Oct. 3, 10	F	14	8:00am-5:00pm	\$625.00
Project Management	Oct. 17, 18, 24, 25	FS	28	8:00am-5:00pm	\$725.00
Principles of Industrial Instrumentation Processes NEW!	Oct. 25	S	7	8:00am-5:00pm	\$200.00
Six Sigma NE	Nov. 7, 14	F	14	8:00am-5:00pm	\$380.00
Life Science Manufacturing					
Basic Validation Concepts and Documentation	Sept. 26, 27	FS	14	8:00am-5:00pm	\$1,325.00
Qualification Studies: Facilities, Utilities & Equipment	Oct. 3, 4	FS	14	8:00am-5:00p	\$1,325.00
Guidelines to Successful Technology Transfers NEW!	Oct. 4	S	7	8:00am-5:00pm	\$200.00
Regulatory Trends	Oct. 11	S	7	8:00am-5:00pm	\$775.00
Basic Regulatory Aspects for the Biotechnology Industry	Oct. 18	S	7	8:00am-5:00pm	\$200.00
Supplier Certification	Oct. 18	S	7	8:00am-5:00pm	\$775.00
Risk Management	Oct. 24, 25	FS	14	8:00am-5:00pm	\$1,325.00
Principles of Industrial Instrumentation Processes NEW!	Oct. 25	S	7	8:00am-5:00pm	\$200.00
Failure Mode & Effect Analysis NEW!	Nov. 1	S	7	8:00am-5:00pm	\$200.00
Cleaning Validation	Nov. 1	S	7	8:00am-5:00pm	\$775.00
Statistical and Validation Matrix Approach Topics	Nov. 8	S	7	8:00am-5:00pm	\$775.00
Security and Safety in the Industry					
OSHA Personal Protection Equipment NE NEW!	Sept. 26	F	7	8:00am-5:00pm	\$200.00
OSHA General Industry Standards NE NEW!	Oct. 4, 11	S	10	8:00am-3:00pm	\$200.00
OSHA Risk Communication NE NEW!	Oct.25	S	7	8:00am-5:00pm	\$200.00
Electric Engineering					
Analysis and Design of Electrical Wiring Residential Diagrams based on the 2008 NEC	Aug. 23, 30	S	14	8:00am-5:00pm	\$380.00
Electric Power Substation Engineering	Sept. 26	F	7	8:00am-5:00pm	\$200.00
Electric System Based on the 2005 NEC	Nov. 7	F	7	8:00am-5:00pm	\$200.00
Power System Protection for Engineers	To be dated		40	8:00am-5:00pm	\$1,995.00
Automation/ Process Instrumentation and Control					
PLC Programming	Oct. 10, 17, 24	F	21	8:00am-5:00pm	\$480.00
Principles of Industrial Instrumentation Processes NEW!	Oct. 25	S	7	8:00am-5:00pm	\$200.00
Computer Engineering / Programming / Softwares					
Basic AutoCad	Sept. 5, 12, 19	F	21	8:00am-5:00pm	\$450.00
Introduction to Visual Basic NEW!	Sept. 6, 13, 20, 27 Oct. 4	S	20	8:00am-12:00m	\$450.00
Computer Keyboarding Techniques NE NEW!	Sept. 20, 27 Oct. 4, 11, 18, 25	S	18	8:00am-12:00m	\$280.00
Advanced AutoCad	Sept. 26 Oct. 3, 10	S	21	8:00am-5:00pm	\$450.00
Unix Operating System NEW!	Oct. 11, 18, 25	S	16	8:00am-3:30pm	\$350.00
Excel and PowerPoint 2007 NE	Oct. 11, 18, 25 Nov. 1	S	24	8:00am-4:00pm	\$450.00
Unix Administration NEW!	Nov. 1, 8, 15	S	16	8:00am-3:30pm	\$350.00
Mechanical Engineering					
Boiler Inspection	Aug. 16, 23, 30 Sept. 6, 13	S	40	8:00am-5:00pm	\$1,150.00
Fire Protection System	Sept. 22, 24, 29	MW	9	6:00pm-9:00pm	\$260.00
Inspection of Elevators and Electric Stairs	Oct. 4, 11, 18, 25 Nov. 1	S	40	8:00am-5:00pm	\$1,150.00
Engineering: Legal Aspects					
Engineering and Law	Sept. 12	F	7	8:00am-5:00pm	\$200.00
Government Bids: Elegibility, Preparation, Opening and Appeal Procedures NEW!	Oct. 17	F	7	8:00am-5:00pm	\$200.00
The Construction Inspector and the Contract: Legal Aspects	Nov. 1, 8	S	14	8:00am-5:00pm	\$300.00
Termination by default	Nov. 14, 15	FS	14	8:00am-5:00pm	\$300.00
Land Surveying and Geomatic Sciences					
GIS Professional Certification (see details on the other side)	Beginning Sept. 2	KT	80	6:00-10:00 pm	\$1,690.00
The Process of Forced Expropriation: Important Aspect for Engineering and Surveyor	Sept. 19, 20	FS	7	8:00am-12:00m	\$200.00
Fundamentals of Geographic Information Systems Spatial Data Modeling NEW!	Sept. 26	F	6	8:00am-4:00pm	\$200.00
Spatial Analysis Functions with Remote Sensing NEW!	Oct. 24, 25	FS	12	8:00am-4:00pm	\$300.00
Tridimensional Terrain Analysis Using Open Source Software NEW!	Nov. 18	K	6	8:00am-4:00pm	\$200.00
Using Geographic Information Technologies on Global Change and Sustainability Studies	Nov. 21, 22	FS	14	8:00am-5:00pm	\$350.00
Applying Data Standards to Digital Cartographic Information Management NEW!	Dec. 12	F	6	8:00am-4:00pm	\$200.00
Architecture and Urban Studies					
Urban Centers Revitalization Act NE NEW!	Aug. 9 - Oct. 11	S	28	9:00am-12:00m	\$550.00
Development of Subsidized Housing NE NEW!	Aug. 11 - Oct. 15	MW	21	6:30-8:00 pm	\$380.00



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**In-house/tailor
 made activities**

Most courses are also available to be offered as in-house/tailor made activities. Please contact us to discuss your training and continuing education needs. Call us at (787) 622-8000 ext. 429 or (787) 758-7915



For certification and recertification requirements, body of knowledge and additional information visit our website www.pupr.edu/validation.

Polytechnic University of Puerto Rico will offer the following Certification Program in Validation:

**Validation Certification Academy Schedule
 September 2008**

Topics	Instructors	Days	Dates
Basic Validation Concepts and Documentation	Magay Vega, PhD, RPh	F,S	September 26, 27
Qualification Studies: Facilities, Utilities & Equipment	Magaly Vega, PhD, RPh	F,S	October 3,4
Regulatory Trends	Milva Meléndez, BSChE	S	October 11
Supplier Certification	Heriberto Lorenzo, BSIE	S	October 18
Risk Management	Carlos Urrutia, BSME	F,S	October 24, 25
Cleaning Validation	Milva Meléndez, BSChE	S	November 1
Statistical and Validation Matrix Approach Topics	Yilma E. Quiñonez, BSChE, MSEM	S	November 8
Exam	Proctors	S	February 2009

Validation Certification Academy Cost Discounts*

General Module (10 days)	Cost per Participant	If register before September 15, 2008	3 or more persons from the same company (25%)
Regular cost	\$6,875.00	\$5,445.00	\$4,085.00ea
		\$4,500.00	

*PUPR Alumni and CIAPR members discounts do not apply.

Specialized Certification Modules

Computer Systems Qualification and Validation	March 2009
Pharma Techn II: Solids	March 2009
Packaging Validation	March 2009
Biotechnology	March 2009

Boiler Inspection

Date	Contact Hours	Time	*Cost
Aug. 16, 23, 30, Sept. 6, 13	40	8:00am - 5:00pm	\$1,150.00

Inspection of Elevators and Electric Chairs

Date	Contact Hours	Time	*Cost
Oct. 4, 11, 18, 25, Nov. 1	40	8:00am - 5:00pm	\$1,150.00

GIS PROFESSIONAL CERTIFICATION

*Beginning September 2, 2008, 80 contact hours, KT 6:00 - 10:00pm
 Cost \$1,690.00*

The purpose of this certificate program is to guide the student through the process of discovering the basic principles that involve the cartographic model generations, how to present them on computers and how these can be used inside of a GIS to solve common problems.

The students must approve all 8 courses in order to receive the certificate of attendance to the GIS program.

1. Theoretical Fundamentals of GIS
2. Digital cartography for GIS
3. Design and database management for GIS
4. Standard ans spatial data quality
5. Spatial analysis with GIS I
6. Spatial analysis with GIS II
7. Development of applications using the GIS

The courses will be distributed among 10 continuous weeks covering 80 contact hours. Class reunions will be Tuesdays and Thursdays from 6:00pm to 10:00pm.



PAT Certification is a program designed with the Pharma, Bioscience and Medical Devices industries.

36 hours, Beginning August 26, 2008

Five multidisciplinary modules and two hands -on lab sessions

For information please call 787 767 0676
 website: ibscaribe.com

*PUPR Alumni will receive a 20% discount and CIAPR member will receive a 15% discount in courses **NE=Non - engineering Activities for Professional Development. These activities are classified as non - engineering either because the topic is not of engineering nature or because the instructor is not an engineer, (Courses approved by the CIAPR 25%). ***To be determined. CAAPPR members will receive a 15% discount in courses. A 20% of the cost will be charged if the cancellation is not notified five days prior to the course.

HOW TO CONTACT US

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