

**Short Courses Program and Certifications**

**August - December 2009**

Polytechnic University of Puerto Rico (PUPR) has been approved as an Authorized Provider of Continuing Education by the "Colegio de Ingenieros y Agrimensores de Puerto Rico". Courses are offered in Spanish. A 15% discount is available for CIAPR members. A 20% discount is available for PUPR alumni.

**14 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
<b>Civil Engineering: Construction Management</b>					
The Process of Forced Expropriation: Important Aspects for Engineers and Surveyors	Sept. 11, 12	FS	8	8:00am-12:00m	\$200.00
Construction Cost Estimating	Sept. 19, 26, Oct. 3, 10, 17, 24	S	28	8:00am-1:00pm	\$520.00
New Seismic Provisions in Building Structural Design	Oct. 9	F	7	8:00am-4:30pm	\$200.00
Critical Path Method (CPM) Construction Scheduling	Oct. 16, 23, 30	F	18	8:00am-3:30pm	\$390.00
Introduction to High Performance Green Buildings for Engineers	Oct. 24	S	4	8:00am-12:00m	\$180.00
Construction Inspector and the Contract: Legal Aspects	Oct. 31, Nov. 7	S	14	8:00am-4:30pm	\$300.00
Earthquake Resistance Design of Shear Walls	Dec. 4	F	7	8:00am-4:30pm	\$200.00
<b>Industrial Engineering and Management</b>					
Sales and Strategic Management of Industrial Clients	Sept. 19	S	7	8:00am-5:00pm	\$200.00
Preparatory Course for Project Management Professional (PMP) Certification (NE)	Sept. 26, Oct. 3, 10, 17, 24	S	40	8:00am-5:00pm	\$750.00
Project Management	Oct. 16, 17, 23, 24	FS	28	8:00am-4:30pm	\$725.00
Principles of Industrial Instrumentation Processes	Oct. 24	S	7	8:00am-4:30pm	\$200.00
Six Sigma (NE)	Nov. 6, 13	F	14	8:00am-4:30pm	\$380.00
<b>Electrical Engineering</b>					
Design of Electrical Diagrams with AutoCAD-NEC 2008	Sept. 5, 12	S	14	8:00am-4:30pm	\$300.00
Principles of Cellular Networks <b>NEW!!</b>	Sept. 19, 26, Oct. 3	S	18	8:30am-3:00pm	\$390.00
Electric Power Substation Engineering	Sept. 25	F	7	8:00am-4:30pm	\$200.00
Reading Electrical Blueprints and Electronic Layouts <b>NEW!!</b>	Oct. 10, 17	S	14	8:00am-4:30pm	\$300.00
Introduction to High Performance Green Buildings for Engineers	Oct. 24	S	4	8:00am-12:00m	\$180.00
Principles of Electrical Measurements (Instrumentation) <b>NEW!!</b>	Oct. 24, 31, Nov. 7	S	18	8:00am-3:00pm	\$390.00
Electrical Systems Based on the 2008 NEC	Nov. 6	F	7	8:00am-4:30pm	\$200.00
Electricity and Electrical Wiring Residential	Nov. 7, 14, 21	S	21	8:00am-4:30pm	\$380.00
<b>Automation/ Process Instrumentation and Control</b>					
PLC Programming	Oct. 2, 9, 16	F	21	8:00am-4:30pm	\$480.00
Principles of Industrial Instrumentation Processes	Oct. 24	S	7	8:00am-4:30pm	\$200.00
<b>Computer Engineering / Programming / Softwares</b>					
Basic AutoCad	Sept. 11, 18, 25	F	21	8:00am-4:30pm	\$450.00
Advanced AutoCad	Oct. 2, 9	F	14	8:00am-4:30pm	\$450.00
Introduction to Web Programming using PHP and MySQL (NE) <b>NEW!!</b>	Oct. 3, 10, 17, 24, 31 Nov. 7, 14, 21	S	30	8:00am-12:30pm	\$360.00
Ethical Hacking	Oct. 30, 31	FS	16	8:00am-5:00pm	\$625.00
<b>Mechanical Engineering</b>					
Inspection of Elevators and Electric Stairs	Sept. 25, Oct. 2, 9, 16, 23	F	40	8:00am-5:00pm	\$1,150.00
<b>Engineering: Legal Aspects</b>					
Engineering and Law	Sept. 18	F	7	8:00am-4:30pm	\$200.00
Government Bids: Eligibility, Preparation, Opening and Appeal Procedures	Oct. 16	F	7	8:00am-4:30pm	\$200.00
Construction Inspector and the Contract: Legal Aspects	Oct. 31, Nov. 7	S	14	8:00am-4:30pm	\$300.00
<b>Land Surveying and Geomatic Sciences</b>					
Land Surveying Exam Review	Aug15,22,29,Sept.5,12,19, 26,Oct.3	S	36	8:00am-12:00m	
GIS Professional Certification (see details on the other side)	Beginning on September	S	80	9:00am-4:00pm	\$1,500.00
The Process of Forced Expropriation: Important Aspect for Engineers and Surveyors	Oct. 2, 3	FS	7	8:00am-12:00m	\$200.00
<b>Life Science Manufacturing</b>					
Basic Validation Concepts and Documentation	Sept. 25, 26	FS	14	8:00am-4:00pm	\$1,325.00
Qualification Studies: Facilities, Utilities & Equipment	Oct. 2, 3	FS	14	8:00am-4:30pm	\$1,325.00
Guidelines to Successful Technology Transfers	Oct. 3	S	7	8:00am-4:30pm	\$200.00
Regulatory Trends	Oct. 10	S	7	8:00am-4:30pm	\$775.00
Supplier Certification	Oct. 17	S	7	8:00am-4:30pm	\$775.00
Risk Management	Oct. 23, 24	FS	14	8:00am-4:30pm	\$1,325.00
Failure Mode & Effect Analysis	Oct. 31	S	7	8:00am-4:30pm	\$200.00
Cleaning Validation	Oct. 31	S	7	8:00am-4:30pm	\$775.00
Statistical and Validation Matrix Approach Topics	Nov. 7	S	7	8:00am-4:30pm	\$775.00
<b>OSHA: Security and Safety in the Industry</b>					
10 Hours OSHA Certification-General Industry (29CFR 1910) <b>NEW!!</b>	Aug. 22, 29	S	10	8:00am-1:30pm	\$245.00
10 Hours OSHA Certification-General Industry (29CFR 1910) <b>NEW!!</b>	Nov. 3, 5	KT	10	5:00pm-10:00pm	\$245.00
30 Hours OSHA Certification-General Industry (29CFR 1910) <b>NEW!!</b>	Sept. 5, 12, 19, 26	S	30	8:00am-5:00pm	\$625.00
30 Hours OSHA Certification-General Industry (29CFR 1910) <b>NEW!!</b>	Nov. 13, 20, Dic. 4, 11	F	30	8:00am-5:00pm	\$625.00
10 Hours OSHA Certification-Construction Industry (29CFR 1926) <b>NEW!!</b>	Sept. 18, 25	F	10	8:00am-1:30pm	\$245.00
10 Hours OSHA Certification-Construction Industry (29CFR 1926) <b>NEW!!</b>	Oct. 3, 10	S	10	8:00am-1:30pm	\$245.00
30 Hours OSHA Certification-Construction Industry (29CFR 1926) <b>NEW!!</b>	Oct. 2, 9, 16, 23	F	30	8:00am-5:00pm	\$625.00
30 Hours OSHA Certification-Construction Industry (29CFR 1926) <b>NEW!!</b>	Oct. 17, 24, 31, Nov. 7	S	30	8:00am-5:00pm	\$625.00
Emergency Planning <b>NEW!!</b>	Aug. 28	F	8	8:00am-5:00pm	\$200.00
Emergency Planning <b>NEW!!</b>	Nov. 10, 12	KT	8	6:00pm-10:00pm	\$200.00
OSHA Recordkeeping (29CFR PART. 1904) <b>NEW!!</b>	Sept. 11	F	5	8:00am-1:30pm	\$160.00
OSHA Recordkeeping (29CFR PART. 1904) <b>NEW!!</b>	Nov. 6	F	5	8:00am-1:30pm	\$160.00
Forklift Operator Certification (29CFR 1910.178) <b>NEW!!</b>	Sept. 4	F	8	8:00am-5:00pm	\$250.00
Forklift Operator Certification (29CFR 1910.178) <b>NEW!!</b>	Oct. 30	F	8	8:00am-5:00pm	\$250.00
Forklift Operator Certification (29CFR 1910.178) <b>NEW!!</b>	Nov. 21	S	8	8:00am-5:00pm	\$250.00
Domestic Violence and the Workplace <b>NEW!!</b>	Nov. 14	S	5	8:00am-1:30pm	\$160.00
<b>Human Resources</b>					
Employee or Independent Contract: Legal Aspects (NE) <b>NEW!!</b>	Sept. 19	F	6	8:00am-2:30pm	\$180.00
<b>Commercial Aspects</b>					
How to Write a Contract: Legal Aspects (NE) <b>NEW!!</b>	Oct. 10, 17, 24	F	12	8:00am-12:30pm	\$295.00



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## COSTUMIZED COURSES

Consider Polytechnic University of Puerto Rico's CPET customized courses. You get the same technical expertise available in our regular courses but tailored to your company's needs. Please contact us to discuss your training and continuing education needs.



For certification and recertification requirements, body of knowledge and additional information visit our website [www.pupr.edu/validation](http://www.pupr.edu/validation).

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

### Validation Certification Academy Schedule September 2009

Topics	Instructors	Days	Dates
Basic Validation Concepts and Documentation	Magay Vega, PhD, RPh	F,S	Sept. 25, 26
Qualification Studies: Facilities, Utilities & Equipment	Magaly Vega, PhD, RPh	F,S	Oct. 2,3
Regulatory Trends	Milva Meléndez, BSChE	S	Oct 10
Supplier Certification	Heriberto Lorenzo, BSIE	S	Oct 17
Risk Management	Carlos Urrutia, BSME	F,S	Oct. 23, 24
Cleaning Validation	Milva Meléndez, BSChE	S	Oct. 31
Statistical and Validation Matrix Approach Topics	Yilma E. Quiñonez, BSChE, MSEM	S	Nov. 7
Exam	Proctors	S	

#### Validation Certification Academy Cost Discounts\*

General Module (10 days)	Cost per Participant	If register before March 4, 2009	3 or more persons from the same company (25%)
Regular cost	\$6,875.00	\$5,445.00	\$4,500.00
			\$4,085.00ea

\*PUPR Alumni and CIAPR members discounts **do not** apply.

INTECO Wired and Polytechnic University of Puerto Rico invite industries of the Central Eastern Region to participate in

## SIX SIGMA

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### YELLOW BELT AND GREEN BELT COURSES

Free seminars for Manufacturing, Life Sciences, Health Care and Entrepreneur-related industries within the Central Eastern Region

Caguas, Cayey, Gurabo, Juncos, Las Piedras,

San Lorenzo, Humacao and Naguabo

\*Full attendance is required \*Limited spaces available

Applications must be submitted by your Human Resources representative

Information:

Antonio Luis Pantoja

(787) 622-8000, extensions 470, 429

[apantoja@pupr.edu](mailto:apantoja@pupr.edu)

#### GIS PROFESSIONAL CERTIFICATION

*Beginning September 2009, 80 contact hours*

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.*

#### Preparatory course for

### Project Management Professional Certification (PMP)

Learn the methodology and skills you need to lead and direct project teams and to deliver results within the constraints of schedule, budget and resources. 40 hours (Saturdays)

Sept. 26, Oct. 3, 10, 17, 24

8:00am to 5:00pm

\$750.00



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

**36 hours**

Five multidisciplinary modules and two hands-on lab sessions

For information please call 787-767-0676  
[website:ibscaribe.com](http://website:ibscaribe.com)

\*\*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%).

#### HOW TO CONTACT US

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