



Global Physics Solutions

Dear Sir / Madam,

Thank you for expressing an interest in the review courses conducted by GPS, Global Physics Solutions, formally known as ARC, Advanced Radiotherapy Consulting. I will attempt in this cover letter to explain the philosophy and modality in which these courses are conducted. Included in this mailing are an application, course schedule, and general course outline. The outline is subject to change consistent with the changing test criteria of the AAMD, ABR, and ABMP.

The demands placed on the medical dosimetrists and medical physicists today are ever increasing; diverse yet specialized at the same time. With the managed health care environment not allowing most institutions to operate at adequate staffing, the ability to find ample study time becomes more and more challenging. The intent of GPS is to fill this void by providing no-nonsense intense instruction with accompanying study guides. In a sense, GPS will have done the homework for you. Several schools have put on review board courses and have failed to provide the necessary focus to ensure students are adequately prepared to PASS their boards. Our philosophy for preparing students adequately is based on:

- Organized Study Notes
- Connecting the Physics to the Clinical Application
- Thoroughness
- Test Rehearsals

The distinction of certification is most definitely a discriminator. The American College of Radiology recognizes competent dosimetrists or physicists as those who are Board Certified. We both know that experience is equally if not more important, however, certification does have several advantages. Physicists / Dosimetrists that are board certified are paid on the average in order of \$5,000 to \$10,000 more annually. Although some may view the GPS courses as premium priced, the payback could be less than one year. GPS courses are premium priced. Why take the exam more than once or attend several other review courses that have not worked for you in the past? Time is money. Let us do the work for you. In many cases, your institute would pay for the course or a portion thereof. Administrators and Physicians need to be aware of the importance of certification. If you would like me to write or talk to these individuals for you, do not hesitate to call me. I look forward to working with you in the future.

Brent D. Murphy, MS, DABR
Certified Medical Physicist
Vice President of Education & Training
GPS / ARC

Medical Physics & Dosimetry Board Review Courses
Schedule of Courses for December 2009 – July 2010
Presented by: Global Physics Solutions, Inc.
(Formally ARC)

Month	Course Dates	Course
	<i>Saturday's & Sunday's</i>	
December	December 12-13, 2009	Dosimetry Review Course
January	January 16-17, 2010 January 23-24, 2010	Dosimetry Review Course Physics Oral Review Course
February	February 6-7, 2010 February 13-14, 2010	Dosimetry Review Course Physics Written Review Course
March	March 6-7, 2010 March 13-14, 2010	Physics Oral Review Course Dosimetry Review Course
April	April 3-4, 2010 April 10-11, 2010 April 17-18, 2010	Physics Written Review Course Dosimetry Review Course Physics Oral Review Course
May	May 8-9, 2010	Dosimetry Review Course
June	June 12-13, 2010	Physics Written Review Course
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July	<i>Friday & Saturday</i> July 16-17, 2010	<i>(Course be held in Philadelphia)</i> Physics Written Review Course

Schedule is subject to change depending on minimum class size requirements met. Please do not book airline or reserve hotel accommodations until course confirmation is received after application is submitted.

Dosimetry Review

Dec. 12-13, 2010
Jan. 16-17, 2010
Feb. 6-7, 2010
March 13-14, 2010
April 10-11, 2010
May 8-9, 2010

Written Physics

Feb. 13-14, 2010
April 3-4, 2010
June 12-13, 2010
July 16-17, 2010
Friday & Saturday

Physics Oral Review

Jan. 23-24, 2010
March 6-7, 2010
April 17-18, 2010

NOTE: July 16-17, 2010 Physics Written Review Course will be held in Philadelphia

Hilton Philadelphia
4200 City Ave.
Philadelphia, PA 19131
215-879-4000

Course Class Size:

Minimum: 4 students
Maximum: 30 students

If minimum number of students is not met, the course will be cancelled. Students that were scheduled will be notified and rescheduled for the next course date.

Dosimetry Review Course offers CEU credits:

ASRT Continuing Education Credits Issued: 16.5

MDCB Continuing Education Credits Issued: 16

Course Fees:

1. Dosimetry Review Course: \$2,100
2. Physics Oral Review Course: \$2,100
3. Physics Written Review Course: \$2,100

A non-refundable deposit of \$1,000 is required to reserve a seat.

Remaining balance of fee is due 10 days prior to course date unless prior arrangements have been made with GPS Administration.

Checks can be made payable to Global Physics Solutions.

MasterCard, Visa, American Express, and Discover are accepted.

Course Fees Include:

Twenty-hour review / instruction, breakfast, lunch, assorted snacks and beverages both Saturday and Sunday, dinner Saturday evening at Tippecanoe Place, Course Review Study Manual, access to review board webpage, and taxi transportation from hotel to the course site and back each day and from the South Bend Regional Airport and back again.

Note: Dinner Saturday & Taxi Service not included for Philadelphia Written Course.

Course Hours:

Class begins each day at 7:30 AM and ends between 4:30 PM – 5:00 PM.

Course Location Downtown South Bend at:

**Radiological Technologies University-VT
100 E. Wayne Street, Suite 140
South Bend, Indiana 46601**

NOTE: July 16-17, 2010 Physics Written Review Course to be held in Philadelphia.

Course Location at:

**Hilton Philadelphia Hotel
4200 City Ave.
Philadelphia, PA 19131
Phone: 215-879-4000**

Radiation Oncology Physics ORAL
2 Day Outline
(ABR & ABMP)

Day 1

- 1. Treatment Machines/Simulators**
 - Acceptance testing
 - Commissioning beam data
 - Beam calibration
 - Quality assurance
- 2. Radiation Measurements/Detectors**
 - Ion chambers
 - Film
 - TLD
 - Diodes
- 3. Clinical Treatment Planning – Photon Beam Therapy**
 - Site-oriented techniques
 - Isodose distributions
 - Inhomogeneity corrections
- 4. Clinical Electron Beam Therapy**
 - Shaped fields
 - Field matching
 - Internal shielding
- 5. Brachytherapy**
 - Interstitial dose calculation
 - Intracavitary dose calculation
 - High-dose rate
 - Source assay
 - Quality assurance
- 6. Radiation Safety/Hazards**
 - Shielding calculations
 - Radioactive material shipment
 - Brachytherapy procedures
 - Regulatory standards

Day 2

- 7. Special Techniques**
 - Total body irradiation
 - Total skin electron therapy
 - Small field/radiosurgery
 - IORT
- 8. Treatment Planning Computer Systems**
 - Acceptance testing
 - Dose calc. algorithms
 - Quality assurance
- 9. Imaging**
 - Principles
 - Fluoroscopy
 - CT Based
 - MRI
 - Therapy Imaging
 - Testing

10. Mock Oral Exams

Global Physics Solution, Inc.
(ARC)
100 E. Wayne Street, Suite 140
South Bend, IN 46601
Phone (574)232-2305 * Toll Free (866) 537-2200 * Fax (574) 232-2405

Registration for Review Course

Attendee Name: _____ Job Title: _____

Home Address: _____

City, State, Zip: _____

Home Phone: _____ Cell: _____

Employed at: _____

Work Address: _____

City, State, Zip: _____

Work Phone: _____ Fax: _____

Email Address: _____

Emergency Contact: _____
(Name & Number)

Please Indicate Which Course & Course dates you are interested in.

Date	Course
_____	Dosimetry Review Course
_____	Therapy Physics Oral Boards Review Course
_____	Medical Physics Written Review Course
_____	<u>Please check if you are a Vegetarian.</u> (Caterer will be notified.)

Please Indicate Your Method of Payment for Deposit or Total Fee:

_____ : Money Order

_____ : Check: Make Checks Payable to
Global Physics Solutions

_____ : Visa / MasterCard / Discover / American Express

Credit Card Number: _____

Expiration Date: _____

Amount to be charged: _____

(\$1,000 deposit or total fee \$2,100)

Signature

If you are paying deposit at this time, what form of payment will balance be?

_____ : Money Order

_____ : Check: Make Checks Payable to
Global Physics Solutions

_____ : Visa / MasterCard / Discover / American Express

Credit Card Number: _____

Expiration Date: _____

Amount to be charged: _____

(\$1,000 deposit or total fee \$2,100)

Signature

Final payment is due within 10 days of course date.

Applicant Signature

Date

Disclaimer: GPS does not guarantee that the individual applicant taking the applicable certification test will pass the exam.