



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  
2011 Schedule  
Presented by: GPS/ARC*

<u>Month</u>	<u>Course Dates</u>	<u>Course</u>
January	January 08-09, 2011 January 22-23, 2011	Dosimetry Review Course Physics Oral Review Course
February	February 05-06, 2011 February 19-20, 2011	Dosimetry Review Course Physics Written Review Course
March	March 05-06, 2011 March 19-20, 2011	Dosimetry Review Course Physics Oral Review Course
April	April 02-03, 2011 April 16-17, 2011 April 30- May 1, 2011	Dosimetry Review Course Physics Oral Review Course Physics Written Review Course
May	May 14-15, 2011 <b>May 21-22, 2011</b>	Physics Oral Review Course <b>Dosimetry Review Course (<u>Las Vegas, NV</u>)</b>
June	June 11-12, 2011 June 11-12, 2011	Physics Written Review Course Dosimetry Review Course
July	July 09-10, 2011 <b>July 29-30, 2011(Fri &amp; Sat)</b>	Dosimetry Review Course <b>Physics Written Review Course (<u>Vancouver, BC, Canada</u>)</b>
August	<b>August 06-07, 2011</b>	<b>Dosimetry Review Course (<u>Philadelphia, PA</u>)</b>

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. 04-05, 2010  
Jan. 08-09, 2011  
Feb. 05-06, 2011  
March 05-06, 2011  
**May 21-22, 2011 (NV)**  
June 11-12, 2011  
July 09-10, 2011  
**Aug. 06-07, 2011 (PA)**

**Written Physics**  
Feb. 19-20, 2011  
Apr.30 -May 1, 2011  
June 11-12, 2011  
(**Fri. - Sat.**)  
**July 29-30, 2011 (Canada)**

**Physics Oral Review**  
Dec. 04-05, 2010  
Jan. 22-23, 2011  
March 19-20, 2011  
April 16-17, 2011  
May 14-15, 2011

**NOTE:**

**May 21-22, 2011 DOSIMETRY Review \* Flamingo Hotel, 3555 Las Vegas Blvd. So., Las Vegas, NV 89109 \***

**July 29-30, 2011 PHYSICS WRITTEN Review \* Vancouver, BC, Canada \* Friday & Saturday**  
**\* Hotel location for Course Site will be posted at a later date. \***  
**2011 AAPM Meeting to be held July 31 - August 4 in Vancouver, BC, Canada**

**August 06-07, 2011 DOSIMETRY Review \* Hilton Hotel, 4200 City Ave., Philadelphia, PA 19107 \***

***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**

***Radiation Oncology Physics ORAL***  
***2 Day Outline***

**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. Q&A**

**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 by: \_\_\_\_\_ Employed at: \_\_\_\_\_

Work Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email Address: \_\_\_\_\_

Emergency Contact: \_\_\_\_\_  
(Name & Phone Number)

\_\_\_\_\_ Please check if you are a Vegetarian (Caterer will be notified.)

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

\_\_\_\_\_ Dosimetry Review \_\_\_\_\_ Medical Physics Written Review \_\_\_\_\_ Therapy Physics Oral Review  
(Date) (Date) (Date)

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

\_\_\_\_\_ Have you been to another ARC / GPS Dosimetry or Physics Board Review Class?

\_\_\_\_\_ Money Order

\_\_\_\_\_ Check: Make Checks Payable to ARC/Global Physics Solutions

\_\_\_\_\_ Visa / MasterCard / Discover / Amex Credit Card Number: \_\_\_\_\_ Exp. 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 ARC/Global Physics Solutions

\_\_\_\_\_ Visa / MasterCard / Discover / Amex Credit Card Number: \_\_\_\_\_ Exp. 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

How did you hear about us? \_\_\_ FAX \_\_\_ Email Flyer \_\_\_ Mailer \_\_\_ Website \_\_\_ Referral

Disclaimer: GPS does not guarantee that the individual attendee taking the applicable Certification will pass the exam.