

CERTIFICATION HANDBOOK
ASBA CERTIFICATION PROGRAM

This handbook has been published to help you through the certification process. You can make the process easier for yourself by following these easy steps:

1. Read through the entire handbook before beginning.
2. Follow all instructions in the handbook carefully.
3. Type or print all information legibly.
4. Send a complete application package.
5. Use a paperclip for any attachments. Please do not staple.

Remember, an incomplete application will delay processing and may incur a reprocessing fee.

If you need additional help, or have any questions or concerns, you may contact the ASBA office by mail at 9 Newport Drive, Suite 200, Forest Hill, MD 21050, or by telephone at 866-501-2722, or by fax at 410-730-8833, or by e-mail at info@sportsbuilders.org. Updated information, including fees, is available on the ASBA website at www.sportsbuilders.org.

Email your completed application packet to: info@sportsbuilders.org or send it to ASBA, 9 Newport Drive, Suite 200, Forest Hill, MD 21050.

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BACKGROUND INFORMATION

The American Sports Builders Association (ASBA) is recognized as the centralized source for information on tennis courts and running tracks for builders, manufacturers, professionals and consumers. The Association was founded in 1965 by a group of contractors who recognized the need for an organization that could help them address their mutual problems, set industry standards, and keep them informed on issues pertinent to their business.

Certification is a voluntary process by which a non-governmental agency, such as ASBA, validates an individual's qualifications and knowledge in a specific area of professional practice based on a set of pre-determined standards. In the case of tennis or track certification, the American Sports Builders Association is validating your qualifications and knowledge as a tennis court or track builder.

Eligible candidates become certified by meeting eligibility requirements and by successfully completing an examination which has been validated according to accepted psychometric criteria. ASBA employs a testing company to assist with development and validation of the examination.

MISSION STATEMENT

The purposes of certification for tennis court and track builders are:

- Assisting the general public in evaluating the experience and expertise of builders;
- Recognizing professional tennis court or track builders who have met a designated level of experience and demonstrated a standard of knowledge;
- Providing a means of identifying professionals who have met a standard of achievement.
- Raising professional standards and improving the practice of tennis court or track construction.

GENERAL INFORMATION

This handbook contains information about certification for tennis court and track builders. You should keep it for reference until you receive your test results.

General questions related to the certification process should be addressed to ASBA at its headquarters:

9 Newport Drive, Suite 200
Forest Hill, MD 21050
866-501-ASBA (2722)
Fax: 410-730-8833
Email: info@sportsbuilders.org

The Certification Committee conducts the on-site administration of the ASBA certification examinations. Questions relating to testing, including specific locations of examinations, time schedules for testing, etc. should be addressed to ASBA headquarters.

ELIGIBILITY REQUIREMENTS

ASBA certification is open to builders currently or recently engaged in tennis court or running track construction. To qualify for initial certification, candidates must meet the following criteria:

1. At the time of application, a candidate must have had a minimum of three years experience in tennis court or running track construction.
2. Track builders must demonstrate 100 eligibility points from the areas of project administration, site, sub-base and base work, layout, surfacing and marking, and track renovation. Tennis court builders must demonstrate 100 eligibility points from the areas of project administration; site, sub-base and base work; consulting with the owner or design professional; coatings, fencing and lighting; and tennis court maintenance and repair. To insure that the candidate has broad-based experience in tennis court or running track construction, certain minimums are required. See the instructions for the eligibility spreadsheet for details on eligibility points.
3. Each candidate is required to provide three references that can verify his/her work experience and eligibility. References must have first-hand knowledge of applicant's work experience, especially as it applies to the projects listed on the applicant's eligibility spreadsheet. (See Verification of Eligibility Form.) Falsification of information shall prevent references from serving as references for a period of up to three years; or from applying for certification themselves.

It is not necessary to be a member of the ASBA to participate in the tennis court or track builders certification program. However, in recognition of the ASBA's financial underwriting of the program, members are allowed a discounted certification fee.

CERTIFICATION OR RECERTIFICATION BY EXAMINATION

The ASBA certification examinations for tennis court and track builders are four-hour written tests consisting of 100 multiple-choice questions. Because of the amount of computation and the number of formulas inherent in track construction, the examination for track builders is an open book test. Applicants may refer to ASBA's *Running Tracks: A Construction and Maintenance Manual* or to other notes or publications during the examination. Applicants should bring their own copies of these materials to the test. No reference materials are permitted to applicants for the tennis certification examination.

These examinations are based on separate role delineation studies, one for tennis court builders and one for track builders. These role delineations are surveys of builders that define the scope of practice and the knowledge and skills required to function competently as a tennis or track builder. The examinations are designed to test a sample of content from the full range of knowledge and the complete inventory of skills required of tennis court builders or track builders. They are written by certified builders, edited and validated by a professional testing company:

Applied Measurement Professionals, Inc. (AMP)
8310 Nieman Road
Lenexa, KS 66214-1579
913-541-0400
913-541-0156 (fax)

What Material Is Covered on the Examination?

The results from the role delineation studies serve as the examination blueprints for the ASBA certification program. The major components (practice domains and specific tasks) of the current role delineations for tennis court and track builders are presented in the Appendices of this handbook.

What Is the Examination Like?

The examinations each consist of 100 multiple-choice questions. Each question has 4 choices with one correct answer. All examination items are written by certified individuals with expertise in the field of tennis court or track building. Before an item is considered for inclusion on an examination, it is referenced, reviewed and validated by the ASBA Certification Committee. Finally, each item is edited by AMP for proper test item construction, grammatical correctness and clarity.

The proportion of questions from each practice domain included on the examinations is based on the relative frequency and importance of each domain and task as determined in the role delineation surveys. The test percentages for the ASBA tennis court and track builders' examinations are listed in Appendices. Sample questions representative of those that may appear on the ASBA examinations are provided in Appendix C. The sample questions do not reflect the full range of content or all the levels of difficulty of questions appearing on the examinations.

Preparing for the Examination

ASBA offers the tennis court and track construction manuals. These are the principal references for questions on the examination. Technical articles in *Newsline*, presentations from recent Technical Meetings and real-world experience also will be helpful.

Test Sites

A candidate for ASBA certification may take the examination at either of the Association's two regularly scheduled meetings, the Winter Meeting held in February or the Technical Meeting held in December, or, by appointment, at ASBA headquarters located in Maryland.

Before the test date, it is a good idea for you to confirm the date and time of the examination and to familiarize yourself with the specific location. This will help to reduce your stress on the day of the test and insure that you arrive on time. If you do not verify your test site location prior to the day of the examination, be sure to give yourself plenty of extra time on the morning of the test.

Requests for Special Accommodation

Arrangements can be made for candidates requesting special accommodations. The candidate is responsible for making the request and for providing documentation of the need for a special accommodation in the form of a letter from a physician or a medical specialist knowledgeable of the candidate's disability. The ASBA recognizes the definition of disability included in the Americans with Disabilities Act (ADA) and acknowledges the provisions of the Act.

Taking the Examination

Each candidate should bring a calculator. Since the track examination is open book, candidates for Certified Track Builder should bring manuals or notes for reference during the exam. Candidates also may wish to bring coffee, sodas or snacks. No refreshments are provided.

The following regulations will be observed at each testing location to insure that all candidates take the examination under uniform conditions:

- Visitors are not permitted in the examination room.
- Proctors are instructed to answer questions about testing procedures only. They cannot respond to any inquiries regarding test content.
- For reasons of test security, no testing material, including scrap papers, notes or calculations, may be removed from the examination room at any time. If you need to make any calculations, please make them on your test booklet, which will be returned to the proctor at the conclusion of the exam. Any candidate who copies or removes or attempts to remove test materials from the test site will be prosecuted by ASBA to the full extent of the law.
- Any candidate determined by the proctor to be giving or receiving assistance of any kind during the examination will be required to turn in his/her test materials immediately and will be escorted from the examining room. The candidate's answer sheet will not be scored and the incident will be reported to ASBA.

In Case of Emergency

If you will be unable to sit for the examination for any reason, please notify ASBA in writing as soon as possible either before or after the exam. In the event of inclement weather or other emergency, please call ASBA headquarters or contact ASBA staff on site to determine whether or not the test will be given.

If You Have a Problem

Every attempt is made to insure that test sites are convenient, comfortable and conducive to testing and that proctors are knowledgeable and competent. Occasionally, minor problems may occur. Any candidate who experiences a problem with the suitability of a test site (noise level, lighting, temperature, access, etc.) or with the performance of a proctor should notify ASBA staff.

Examination Scoring

ASBA examinations are hand scored by ASBA staff. To facilitate scoring, it is critical that you complete your answer sheet according to the instructions provided by the proctor at the test site.

ASBA will mail examination results to you within three (3) weeks following the test administration. If you change your address between the time you apply to take the examination and the date of the actual test, you should notify ASBA headquarters.

For the tennis court examination, a score of 74 is required to pass. For the track examination, the passing score is 74. The passing point for the examination is set by a detailed review of the current version of the test using accepted psychometric methods.

RECERTIFICATION

Certification for tennis court and track builders is granted for a period of three years. The certification period begins with the date certification or recertification is granted (the exam date or the deadline for submission of recertification by contact hours) and ends on December 31 three years later; i.e. certification or recertification granted as of 5/31/11 is valid through 12/31/14.

Candidates may recertify either by taking the then current certification examination or by submitting an application for recertification through documenting eligibility and continuing education points during the previous three years. Requirements are for 50 eligibility points using the Track or Tennis Eligibility Spreadsheet and for 40 continuing education points using the Recertification Verification Form.

In any given year, a candidate with a recertification expiration date of 12/31 will have three opportunities to recertify during the year – an exam at the Winter Meeting or Technical Meeting, or recertification by continuing education points any time prior to the December 31 deadline. Candidates will be sent a reminder of their expiration to the last address listed in the ASBA database. Remember, keep your address current by notifying ASBA of any changes.

For more information on recertification, see the Recertification Handbook.

Fees

The entire amount due in U.S. dollars must accompany the completed application. Applications accompanied by incorrect fees will not be processed and will be returned. There is a fee for returned checks. Please note that failure to pay fees is grounds for revocation of certification.

Make checks or money orders payable to:

ASBA

Both personal and employer checks are acceptable.

To avoid international collection fees and to keep costs down, payments made by check or money order must be made in U.S. funds on a U.S. bank. Checks on a foreign bank with “U.S. funds” written on them are not acceptable and will be returned.

To pay fees by charge (MasterCard, VISA or American Express), please complete the charge authorization included in the application packet.

Current certification fees are:

- ASBA MEMBERS \$600.00
- NON-ASBA MEMBERS \$1100.00

Incomplete applications will be returned to candidates for correction and resubmission. A reprocessing fee of \$20.00 will be imposed for all incomplete applications returned to candidates and resubmitted.

The examination fee for the ASBA certification program includes a \$50.00 application-processing fee, which will not under any circumstances be refunded. Should your application be denied, you will receive a refund for the examination fee; however, the nonrefundable processing fee will be retained.

Refund Policy

ASBA application fees are non-transferable. If you register but fail to sit for a scheduled examination, you may receive a refund, less the \$50.00 application processing fee, or you may reschedule your examination to any regularly scheduled administration, or to an examination by appointment at Association headquarters, within one calendar year. At the end of one calendar year, your fees will be refunded less the \$50.00 application-processing fee, and should you decide to apply for certification in the future, you will be required to submit a new application and fees.

Fees are subject to change without notice. Please call ASBA or consult the ASBA website at www.sportsbuilders.org for the most current schedule of fees.

Refunds are not available to those who do not receive a passing score. However, persons who do not receive a passing score may retake the examination once within a calendar year by submitting a new application-processing fee of \$50.00. Any candidate who does not successfully complete the process within a calendar year must submit a new application and fees if they decide to re-apply for certification in the future. The certification process, including examination, may be repeated as often as necessary; however, a new application must be submitted each time as forms, policies and procedures are updated and changed. The appropriate fee must accompany an application each time it is submitted, except as noted above.

This Refund Policy is subject to change without prior notice.

Exam Challenge

A candidate who fails to achieve a passing score may challenge any one or more items on the examination by sending a formal letter of challenge within thirty (30) days of the mailing date of the score report. The letter should include the candidate's name, mailing address, work and home telephone numbers, and specific reason for the challenge. Your letter should be sent via certified mail, return receipt requested, to ASBA Headquarters, 9 Newport Drive, Suite 200, Forest Hill, MD 21050.

An exam challenge will be investigated first by the Certification Chairman. Within forty-five (45) days of receipt of the challenge, the Certification Chairman will issue a written response. If the candidate is not satisfied with that response, he or she may appear before the Board during its next regularly scheduled meeting to present the challenge. The candidate will assume responsibility for all costs incurred to attend this meeting as well as costs for processing the challenge, which may include duplicating, telephone charges, postage, etc. The candidate may introduce evidence including books, articles, copies of statutes or other information substantiating his or her position. The Board will make a final decision regarding the challenge and will notify the candidate in writing, substantiating that decision, within fourteen (14) days following the hearing.

CERTIFICATION POLICIES

Revocation of Certification

ASBA has the right to revoke any certificate that it has issued in the event that the recipient engages in past or current conduct found to be not in compliance with the program's procedures or professional standards. An individual whose certification is revoked may no longer claim to be certified or use the certification designation. He or she must return his or her certificate.

A review and appeal process is available for any individual whose certificate is pending revocation or has been revoked. Revocation of certification does not constitute evidence that the practitioner acted wrongly or became incompetent.

Tennis court and track certification may be revoked for any of the following reasons or for any other reason which the Certification Committee determines demonstrates that the individual does not meet the program's professional standards:

1. Falsification of the certification or recertification application.
2. Falsification of any information requested by ASBA.
3. Failure to maintain eligibility requirements.
4. Failure to pay fees.
5. Misrepresentation of ASBA membership or certification status.
6. Conviction of a felony.
7. Cheating on the examination.

Review and Appeal

A review process and an appeal procedure are available for candidates whose applications have been rejected or for those whose certifications have been revoked.

This is a two-step process. First, a review will be conducted by the ASBA Certification Committee. If the candidate is still dissatisfied after that review, an appeal hearing will be held by the ASBA Board of Directors.

Within thirty (30) days of the postmarked date of the notification letter informing the candidate of the denial of application or of impending revocation, a candidate may file a request for a review. The letter requesting a review should include the name, mailing address and telephone numbers (work and home) of the candidate, a copy of the notification letter and the specific reason for the request for review. It should be sent via certified mail, return receipt requested, to ASBA Headquarters, 9 Newport Drive, Suite 200, Forest Hill, MD 21050.

A candidate requesting a review should expect a response to his or her request within forty-five (45) days.

It should be noted that while both the ASBA Certification Committee and Board of Directors have the authority to modify or reverse decisions with regard to certification or with regard to revocation of certification, their action will be based only on whether or not the decision made was reached in accordance with the policies and procedures of ASBA then in effect through a fair and impartial process. Neither the Certification Committee nor the ASBA Board is likely to change the requirements for certification or the policies with regard to revocation of certification in an individual case or with respect to an individual appeal.

The cost of a review or appeal will be borne by the individual requesting the review or appeal. This may include photocopying, mailing, telephone charges and, in some cases, travel and accommodations for an appeal hearing.

Non-Discrimination

ASBA does not discriminate on the basis of race, age, gender, sexual orientation, political or religious beliefs, disability or national origin.

Use of Logo

Certification is a personal designation, earned by an individual through years of work and hours of study. It does not apply to a company as a whole. Certified individuals should insure that company brochures, stationery, etc., reflect the personal and individual nature of the designation. Printed materials should indicate clearly that the company employs or is owned by a certified builder, not that the company itself is certified. Any time the designations "CTB" or "CTCB", the words "Certified Track Builder" or "Certified Tennis Court Builder", or the certified logos are used, they should be associated with the name of the certified individual, except that companies may state that they have a "Certified Tennis Court Builder" or "Certified Track Builder" on staff. Use of the certification logo shall at all times be in accordance with the rules and policies of the Association in effect from time to time.

Confidentiality Policy/Publication or Release of Information

ASBA respects the privacy of all applicants. All materials submitted with applications, any action taken on applications and information regarding individual performance on the examination will be held in confidence except as required by the process (i.e., review by Association staff, Certification Committee and/or Board of Directors) or by law.

ASBA, however, has an obligation to the public. Therefore, it responds to questions from employers, owners and others regarding whether or not an individual is certified. Additionally, since publishing and releasing the names of certified builders and/or successful candidates recognizes those individuals and encourages certification, ASBA reserves the right, without limitation, to release the names of certified individuals or successful candidates. Application for certification through this program constitutes acknowledgment and acceptance of ASBA's policy with regard to publication and release of names.

Name and/or Address Change

Please notify ASBA in writing of any changes in your name and/or address during the certification period. Failure to do so may mean you will not receive important information about changes in recertification policies, deadlines, etc.

Inquiries

If you have any questions concerning the procedures outlined in this handbook for ASBA certification, please write or call:

ASBA, 9 Newport Drive, Suite 200, Forest Hill, MD21050
866-501-ASBA (2722), Fax: 410-730-8833, Email: info@sportsbuilders.org

INSTRUCTIONS

Verification of Eligibility Form

The Verification of Eligibility Form requests each candidate to submit three references who can verify your work experience and eligibility and to demonstrate work experience totaling three years in tennis court or track construction.

Secure the names, addresses and signatures of three references. They should read the verification statement, sign and date the form where requested. Next, list current and former employers showing at least three years experience.

Eligibility Spreadsheet

For initial certification, track builders must demonstrate 100 eligibility points from the areas of project administration, site, sub-base, and base work, layout, surfacing and marking, and track renovation. At least 50% of this work must have been performed within the past three years. To insure that the builder has broad-based experience, certain minimum and maximum point values are required. Construction must be completed on all projects listed. See below for a description of categories.

I. Project Administration – Minimum Points -5, Maximum Points - 50

1. Prepare bids and proposals - 1 point per project
2. Prepare/review change orders, owner billings, subcontractor billings, job costs - .5 points per project
3. Plan and schedule crews, subcontractors and material deliveries - .5 points per project
4. Supervise project – 1.5 points per project

II. Site, Sub-base, and Base Work – Minimum Points – 15, Maximum Points - 60

1. Identify site issues (soils, drainage, obstructions, access) - .5 points per project
2. General site design (survey, calculate line and grade, construction staking) - 1.5 points per project
3. Prepare site (excavation, grading, slope stabilization, drainage, utilities) - 1 point per project
4. Install base (fine grading, sterilant, geotextile, crushed aggregate, paving) - 1 point per project

III. Track Layout - Minimum Points – 15, Maximum - 60

1. Preliminary design (site selection, track geometry, construction methods, overall site plan) – 1 point per project
2. Design track facility (track geometry, perimeter systems, transition areas and chutes, steeplechase) – 1.5 points per project
3. Design field events (high jump, long/triple jump, pole vault, shot/discus, hammer, javelin) – 1.5 points per project
4. Determine track measurements and calculations (best fit, measure line, material quantities/costs, surface) – 1.5 points per project

IV. Track Surfacing and Marking - Minimum Points – 15, Maximum Points - 60

1. Apply surface (inspect base, prepare base, stage materials, install synthetic surface) 1.5 points per project
2. Striping calculations (events, color plan, lane lines) - 1 point per project
3. Striping layout (radius point, points-of-curve, event markings) – 1.5 points per project
4. Apply marking - .5 points per project

V. Track Renovation - Minimum Points – 5, Maximum Points - 50

1. Evaluate existing track (geometry, condition) – 1 point per project
2. Recommend improvements (drainage, asphalt, surface, perimeter systems, events) – 1 point per project
3. Implement improvements – 1 point per project

For initial certification, tennis court builders must demonstrate 100 eligibility points from the areas of project administration; site, sub-base and base work; consulting with the owner or design professional; coatings, fencing and lighting; and tennis court maintenance and repair. At least 50% of this work must have been performed within the last three years. To insure that the builder has broad-based experience, certain minimums are required. Construction must be completed on all projects listed. See below for a description of categories and minimums:

I. Project Administration – Minimum Points Required

1. Prepare bids and proposals - .2 points per project
2. Prepare/review change orders, owner billings, subcontractor billings, job costs - .2 points per project
3. Plan and schedule crews, subcontractors and material deliveries - .2 points per project
4. Supervise project - .2 points per project

II. Site, Sub-base, and Base Work – Minimum Points Required - 15

1. Identify site issues (soils, drainage, obstructions, access) - .5 points per project
2. General site design (survey, calculate elevation and grade, construction staking) - .5 points per project
3. Prepare site (excavation, grading, slope stabilization, drainage, utilities) - .5 points per project
4. Install base (fine grading, sterilant, geotextile, crushed aggregate, paving) - .5 points per project

III. Consult with Owner or Design Professional – Minimum Points Required - 15

1. Plan and design a new tennis court project or renovation (facilities use issues, dimensions, orientation, drawings, specifications, samples, multiple court batteries, net post location, budget, elevation, slope, lighting, fencing) - 1 point per project

IV. Tennis Court Coatings, Fencing, Lighting – Minimum Points Required - 15

1. Install court surface (materials required, patching, lines – except blended lines for 10 & Under courts cannot be used for points) - .2 points per court
2. Install tennis court equipment (fencing, net posts, lighting, windscreen) - .1 point per court

V. Tennis Court Maintenance and Repair – Minimum Points Required - 5

1. Analyze reasons for failures - .1 point per court
2. Recommend products and systems to increase life of court - .1 point per court

When completing the Certification Spreadsheet, please include only work in which you, individually, participated regardless of the scope of work performed by your company in connection with the project. Construction must be completed on all projects.

To complete the Certification Spreadsheet, list the project names and dates across the top under “Job Name/Date.” Then, list 1 (for one project) or the number of courts (if applicable) in the columns. Give yourself a number only on the lines describing work in which you, personally, played a role on that project. Once you have completed the columns and rows for projects/courts/roles, add across each row and multiply the resulting total by the number of points allowed per project or per court for that category, filling in the total in the far right hand column. Add the columns and complete the project and category subtotals and the grand total. Fifty percent of the points submitted must be from projects completed in the last three years.

Payment Form

Please indicate whether or not you or your company is a ASBA member. Then, circle the appropriate fee and write in the correct amount submitted with your application.

You may pay by check or charge. If paying by check, make your check payable to:

ASBA

To avoid international collection fees and to keep costs down, payments made by check or money order must be made in U.S. funds on a U.S. bank. Checks on a foreign bank with “U.S. funds” written on them are not acceptable and will be returned.

If paying by charge, complete the authorization form by providing your charge card number, expiration date and signature authorizing ASBA to charge your account. The charge will appear as “Association Headquarters” on your statement.

Email/Mailing

Email your completed application packet to: infor@sportsbuilders.org or send to ASBA, 9 Newport Drive, Suite 200, Forest Hill, MD 21050

APPENDIX A – Tennis Test Blueprint

- I. Project Administration - 6%
 - A. Prepare proposals and contracts

- B. Resolving accounting and auditing issues
 - C. Gather information and plan
 - D. Conduct installation
- II. Site, Sub-base and Base Work - 30%
- A. Identify site issues
 - B. Prepare the site and sub-base
 - C. Install the base
- III. Consulting with Owner or Design Professional - 21%
- A. Plan a tennis court project regarding site planning and facilities use issues
 - B. Plan a tennis court project regarding dimensions
 - C. Plan a tennis court project regarding outdoor tennis court orientation
 - D. Design a tennis court
- IV. Indoor Tennis Courts - 4%
- A. Recommend lighting
 - B. Install padding, backdrops and divider netting
- V. Tennis Court Construction - 30%
- A. Assess properties of various surfaces
 - B. Install court surface
 - C. Install tennis court equipment
 - D. Install tennis court accessories and amenities
- VI. Tennis Court Maintenance and Repair - 9%
- A. Analyze reasons for failure
 - B. Recommend products and systems to increase life expectancy and use

APPENDIX B – Track Test Blueprint

- I. Project Administration - 10%
 - A. Prepare proposals and contracts
 - B. Resolving accounting and auditing issues
 - C. Gather information and plan
 - D. Conduct installation

- II. Site, Sub-base and Base Work - 16%
 - A. Identify site issues
 - B. Prepare the site and sub-base
 - C. Install the base

- III. Track Layout - 40%
 - A. Consult with owner or design professional to plan a track project
 - B. Design track facilities
 - C. Design field event facilities
 - D. Determine track measurements and calculations

- IV. Track Surfacing and Marking - 18%
 - A. Apply a surface to a track
 - B. Plan and apply a marking system for a track

- V. Track Renovation - 16%
 - A. Inspect an existing track
 - B. Recommend improvements to drainage, perimeter system, asphalt, field events, surface
 - C. Implement improvements

APPENDIX C – Sample Test Questions

TRACK

1. An existing asphalt running track has measurements of 329.5 feet between radius points and 109.4 feet to the measuring line. What is the length of the track?
 - A. 1345.42 feet
 - B. 1345.39 feet
 - C. 1346.38 feet
 - D. 1347.04 feet
2. The quantity of rubber required to install a synthetic surface is 1.86 pounds per square foot at ½” depth. A running track surface will have a 3/8” depth and will cover 5,300 square yards. How many pounds of rubber will be needed to surface the running track?
 - A. 22,180.50 pounds
 - B. 88,722.00 pounds
 - C. 39,432.00 pounds
 - D. 66,541.50 pounds
3. High School field event areas are being designed to minimum requirements. Included are 4 long jump/triple jump runways and 2 pole vault runways with 2 (5mX5m) landing pads. The thickness of asphalt is to be 3”. Approximately how many tons of asphalt will be required if the asphalt weights 330 pounds per square yard?
 - A. 54 ton
 - B. 64 ton
 - C. 61 ton
 - D. 57 ton

TENNIS

1. The proper minimum dimension of the net center strap anchor is?
 - A. 18” x 18” x 18” cube
 - B. 12” in diameter, 12” deep
 - C. 12” x 12” x 12” cube
 - D. 18” in diameter, 36” deep
2. A customer would like a 2-color layout on his new standard size single acrylic surface tennis court. The manufacturer of the 3-coat color system recommends that the 2 final color coats be installed at the application rate of .05 gallons per square yard per coat of undiluted material. How much job mixed color will be needed for the completion of the inbound area if the manufacturer recommends the material be cut with 50% water?
 - A. 23 gallons
 - B. 31 gallons

- C. 35 gallons
 - D. 47 gallons
3. An owner has a standard four-court battery (204' x 120') of asphalt tennis courts that he wants to convert to fast dry. If the original courts have zero slope and the fast dry courts are to be installed with a minimum of 4" of stone on the low side and .28% slope in the 120' direction, how much stone will be needed to establish the stone base before the fast dry is applied? (stone density is 150 pounds/cubic foot compacted)
- A. 605 tons
 - B. 918 tons
 - C. 1144 tons
 - D. 1224 tons

Answers to Sample Test Questions

TRACK ANSWERS

Question Number 1 – C (R to R = 329.5 Ft.

109.4 Ft. to measure line

$329.5 \text{ Ft.} \times 2 = 659.0 \text{ Ft.}$

$109.4 \text{ Ft.} \times 2 \times 3.1416 = 687.382 \text{ Ft.}$

$659.0 \text{ Ft.} + 687.382 \text{ Ft.} = 1346.382 \text{ Ft.}$)

Question Number 2 – D (1.86# per Sq. Ft. = 1/2" thick

3/8" thick = $1.86/4 = .465 \times 3 = 1.395\#$

$5300 \text{ Sq. yd.} \times 9 = 47,700 \text{ Sq. Ft.}$

$47,700 \text{ Sq. Ft.} \times 1.395\# = 66541.5\#$)

Question Number 3 – B (Long Jump/Triple Jump Runways

minimum is 1.07m x 40m + 12 Ft.

1 meter = 3.28083 Ft.

$1.07\text{m} \times 3.28083 = 3.51 \text{ Ft.}$

$40\text{m} \times 3.28083 = 131.233 \text{ Ft.} + 12 \text{ Ft.} = 143.233 \text{ Ft.}$

$3.51 \text{ Ft.} \times 143.233 \text{ Ft.} = 502.748 \text{ Sq. Ft.}$

$4 \text{ runways} \times 502.748 \text{ Sq. Ft.} = 2010.98 \text{ Sq. Ft.}$

$2010.98/9 \text{ Sq. Ft.} = 223.442 \text{ Sq. yds.}$

Pole Vault Runways

minimum is 1.07m x 40m

$3.51 \text{ Ft.} \times 131.233 \text{ Ft.} = 460.628 \text{ Sq. Ft.}$

$2 \text{ runways} \times 460.628 \text{ Sq. Ft.} = 921.256 \text{ Sq. Ft.}$

$921.256/9 = 102.361 \text{ Sq. yds.}$

Landing Pads

5m x 5m

$16.404 \text{ Ft.} \times 16.404 \text{ Ft.} = 269.091 \text{ Sq. Ft.}$

$2 \text{ pads} \times 269.091 = 538.182 \text{ Sq. Ft.}$

$538.182/9 = 59.798 \text{ Sq. yds.}$

$223.442 + 102.361 + 59.798 = 385.601 \text{ Sq. yds.}$

$385.601 \text{ Sq. yds.} \times 330\#/ \text{Sq. yd} = 127,248.33\#$

$127,249.33/2000 = 63.62 \text{ tons} - \text{rounded to } 64 \text{ tons} = 13)$

TENNIS ANSWERS

Question Number 1 – B (pg. 94 of manual)

Question Number 2 – D ($36' \times 78' / 9 = 312 \text{ s.y.}$ at .10 = 31.2 gallons * 1.5 = 46.8 gallons)

Question Number 3 – B ($204' \times 120' = 24480 \text{ s.f.}$.28% slope in 120' equals 4" fall

4" minimum thickness on the low side means 8" thickness on the

high side. Therefore, the average thickness is 6". $24480 \times .5 \times 150 / 2000 = 918 \text{ tons}$)

DISCLAIMER

The candidate understands that:

It is not the intent of the American Sports Builders Association and its members to qualify or permit any certified builder to perform any service that is permitted only by professional licensure or state law.

The ASBA does not represent that certified builder status fulfills any requirement of state or local law.

This examination is not offered to be used as a qualification for promotion or employment.

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