REFRIGERATING ENGINEERS & TECHNICIANS ASSOCIATION
Information Handbook and Application Form

Valid for examinations offered through December 31, 2022

Certified Refrigeration Service Technician (CRST) ©

RETA is fully committed to maintaining the fairness, impartiality, validity, and integrity of all RETA certification programs. RETA policies and procedures are designed to assure that all decisions about certifying every candidate are based solely on the candidate’s qualifications and performance on RETA examinations and other certification-related activities.
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The Refrigerating Engineers and Technicians Association does not discriminate on the basis of age, sex, race, creed, disabling condition, religion, national origin, or any other protected characteristic.
Introduction to the Certified Refrigeration Service Technician (CRST) Handbook

Refrigerating Engineers and Technicians Association (RETA) started in 1910 with formation of the National Association of Practical Refrigerating Engineers. NAPRE became RETA in 1961. RETA’s mission is to enhance the professional development of industrial refrigeration operators and technical engineers.

Certification recognizes an individual’s qualifications and demonstrated knowledge. This examination started in July 2018 and builds on content that is supported in seven RETA books that are listed in this Handbook.

Certification is based on knowledge shown by meeting designated eligibility requirements and passing the certification examination. The certification process helps individuals improve their skills and provides employers with a benchmark for evaluating job applicants and employees.

Objectives

- To establish a nationally recognized standard of experience, education, and training for refrigeration plant operators and supervisors.
- To assist the refrigeration industry in developing and recognizing qualified refrigeration plant operators and supervisors.
- To encourage technical training and education, as well as practical experience, for refrigeration plant operators and supervisors.
- To promote safety in industrial refrigeration facilities.
- To increase public recognition of the skills needed in the industrial refrigeration field.

RETA Certification Programs

<table>
<thead>
<tr>
<th>RETA Credential</th>
<th>Certification Criteria</th>
<th>Initial Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certified Assistant Refrigeration Operator (CARO)</td>
<td>Show entry-level knowledge needed to assist in refrigeration system operations under supervision</td>
<td>Score 70 or higher on CARO exam</td>
</tr>
<tr>
<td>Certified Industrial Refrigeration Operator (CIRO)</td>
<td>Show knowledge needed to supervise refrigeration system operations</td>
<td>Two years’ experience plus score 70 or higher on CIRO exam</td>
</tr>
<tr>
<td>Certified Refrigeration Service Technician (CRST)</td>
<td>Show knowledge and skills related to technical and operational support for refrigeration systems</td>
<td>CARO or CIRO credential or at least four years of experience plus score 70 or higher on CRST exam</td>
</tr>
<tr>
<td>Certified Refrigeration Energy Specialist (CRES)</td>
<td>Show knowledge required to manage energy efficiency in refrigeration systems and facilities</td>
<td>Score 70 or higher on CRES exam plus document three Energy Efficiency Activities</td>
</tr>
<tr>
<td>RETA- Authorized Instructor (RAI)</td>
<td>Show ability to teach industrial refrigeration operations</td>
<td>Show evidence of teaching industrial refrigeration plus score 80 or higher on RAI exam</td>
</tr>
</tbody>
</table>
How to prepare for these examinations
RETA publishes a series of books to help refrigeration operators gain the knowledge required to operate industrial refrigeration systems safely and efficiently. Other sources also are available to help candidates master these concepts and skills. Candidates may choose many paths and resources to help them qualify for a RETA credential.

Study Guides
RETA created Study Guides to help candidates prepare for each certification exam. Each Study Guide can be downloaded free from the RETA website. Study Guides include reference information that will be needed to answer questions during each test. These references will appear on-screen during each test. **Candidates are not allowed to use these study guides during a RETA certification examination.** Candidates should become familiar with these references for the RETA credential they are working toward before taking the test.

- The **CARO Study Guide** provides references candidates will need to be familiar with to answer questions on the CARO examination.
- The **CIRO Study Guide** provides references and screens that candidates will need to be familiar with to answer questions on CIRO exam. This Study Guide also illustrates how to use data in CIRO screens to evaluate and resolve problems in refrigeration system operations.
- The **CRST Study Guide** provides references and screens that candidates will use during the test. This Study Guide also illustrates how to use data in RST screens to evaluate and resolve problems in refrigeration system operations.
- The **CRES Study Guide** provides references and screens that candidates will need to be familiar with to answer questions on the CRES exam. This Study Guide also illustrates how to use data in CRES screens to evaluate and resolve problems in refrigeration system operations. It also provides source information that support for other questions on the CRES exam. CRES candidates need to review this information to be able to answer these questions, but they do not have access to the CRES Study Guide during the full examination.

Practice Tests

- **One Practice Test is included in the CRST application fee.**
- **Information about your CRST Practice Test will be sent to the email address you provide in your application for the CRST examination.**
- Each practice test includes questions like those that appear on the full Examination.
- Practice Tests use the same onscreen references that appear for each full examination.
- Additional practice test attempts are available for $59 each.

Calculators

All the calculations required in this test can be completed with a simple calculator. A scientific calculator is **NOT** required to perform well on this examination. You are permitted to bring a simple non-printing calculator to the test, but you will be required to clear the calculator memory before you may take any calculator into the testing room. Not all Kryterion test centers provide calculators, therefore you should bring a calculator with you to the test center.
Using Onscreen References during the CRST Examination

CRST examinations taken in a proctored test center display onscreen references that appear in a PDF next to test questions. This section provides a sample question and sample screens to illustrate the tools available to find information in the onscreen references during the test.

Sample References Screen 1 shows the CIRO REFERENCES Table of Contents on the right side of the screen and a sample question on the left side. CRST References use the same format. The CRST Study Guide provides the references that appear onscreen in the CRST practice test and during the full CRST examination.

The following tools can help you use information in the CRST References file.

- Questions appear on the left side of the vertical line in the center of the screen.
- Time remaining appears in a countdown timer above the question.
- “Mark this item for later review” below the question lets the candidate flag the question to review later.
- Three buttons also appear below the question near the centerline:
  - Use the Next button to record the answer to a question and move to the next question on the test.
  - Use the Review All button to move to a screen that shows which questions you have answered and identifies questions you have marked for later review.
  - Use the Submit Exam button as the first of three steps required to end the test.
Candidates can move to each page in the onscreen references document by using one of these tools:
- Place the cursor on the icon in far right column at the top of the screen, then drag it to move to the page with the desired information. **OR**
- Use the mouse scroll wheel to move to the page with the desired information.

Candidates can expand the right side of the screen by moving the centerline to the left. **Sample References Screen 2** also shows the Fire Fighting Measures section of the Ammonia Safety Data Sheet (SDS) where the answer to the sample question appears. “Carbon dioxide can displace oxygen” parallels answer A in the sample question.

Three navigation buttons appear on the far right side of the screen during a test. The top button fits the image to the width of the window on the right side of the screen. The + and – icons zoom in or out. The CTRL key + Mouse scroll wheel also can be used to zoom in or out.
CRST Examination References and Content

The CRST examination is based on concepts presented in the following RETA texts:
1. Industrial Refrigeration 1 (IR-1)
2. Industrial Refrigeration 2 (IR-2)
3. Industrial Refrigeration 3 (IR-3)
4. Industrial Refrigeration 4 (IR-4)
5. Basic Electricity 1 (BE-1)
6. Basic Electricity 2 (BE-2)
7. RETA Ammonia Refrigeration Compliance Guidelines

Other publications are available that introduce the content areas examined in the CRST test. RETA does not endorse or guarantee that all content areas in the CRST exam are covered in these materials. The last page of this handbook lists alternative study references and training options.

The following content areas are in the CRST examination.

A. Safety 24 Qs
B. Compressors 16 Qs
C. Oil Analysis 7 Qs
D. Condensers & Cooling Towers 11 Qs
E. Vessels, Piping, Valves & Controls 11 Qs
F. Insulation Systems 6 Qs
G. Evaporators & Heat Exchangers 9 Qs
H. Pumps & Transfer Systems 9 Qs
I. Purgers 6 Qs
J. Electric Service, Motors, etc. 12 Qs
K. Controls Maintenance 8 Qs
L. Shaft & Bearing Maintenance 6 Qs
M. Leak Monitoring & Detection 8 Qs
N. Troubleshooting System Operations 7 Qs
O. Ammonia Refrigeration Compliance 10 Qs

Total 150 Qs

Eligibility for RETA Certification

No individual is eligible for RETA certification unless he/she is in compliance with the RETA Code of Conduct. RETA may deny, revoke, suspend, or otherwise act upon certification or membership of any individual who is not in compliance with the RETA Code of Conduct.

1. The individual must truthfully complete and sign the RETA application for certification and shall provide additional information as requested. All documents and information provided to RETA as part of the certification process are the property of RETA and will not be returned.

2. All RETA members, certification candidates and certificate holders agree to waive all claims against and will hold harmless RETA, its staff, volunteers and agents which arise out of or relate to any RETA investigation and review of alleged violations of the RETA Code of Conduct.
The RETA Code of Conduct sets the professional standards required of all RETA members and certificate holders. RETA certification and membership affirms your agreement to abide by these standards to advance the integrity, honor and prestige of all persons and organizations in the refrigeration industry. By signing the RETA Code of Conduct you agree to strive to meet the following professional standards of behavior:

1. I recognize the urgency of protecting the health and safety of all personnel in refrigeration facilities and the public and agree to safely handle and operate refrigeration equipment and supplies at my level of knowledge, skill and experience.
2. I accept responsibility for assuring that those persons for whom I am responsible will be qualified by training, education and experience to operate the specific equipment in the refrigeration facility at which I am employed.
3. I will promote training and education of those refrigeration personnel with whom I come in contact to assure that they are qualified to maintain and improve the safety and energy-efficient operation of refrigeration facilities for which they have any responsibility.
4. I accept responsibility for my own continued professional development as well as that of those I supervise and will participate in appropriate certification and training activities to acquire, demonstrate and maintain competence in the refrigeration industry.
5. I will comply with all laws, rules and regulations that apply to safe operation of refrigeration facilities.
6. I will act responsibly and with integrity in all refrigeration industry and RETA activities by adhering to high standards of professional conduct to protect the health and safety of employees, employers, the public and all others affected by refrigeration facilities and practices.
7. I will avoid conduct or practices that could discredit the refrigeration industry like deceiving or harming employees, employers or the public.
8. I will provide accurate and truthful information related to all aspects of my RETA membership, certification and refrigeration training and experience.
9. I will follow all requirements established by RETA regarding references to my RETA certification and membership when describing my qualifications, training and experience in the refrigeration industry.
10. I will cooperate with RETA in any investigation of test security, validity, conflicts of interest or possible violations of the RETA Code of Conduct that warrants my participation.
11. I will maintain open and constructive relationships with those governmental and regulatory authorities relevant to the refrigeration industry with the intent of fostering an atmosphere of mutual trust and respect on behalf of myself and those for whom I am professionally responsible.
12. I will refuse to engage in any behavior that could be perceived as a threat to the health and safety at refrigeration facilities, of other employees and the public. This includes but is not limited to problems with chemical dependency, substance abuse, verbal threats or physical violence that could adversely affect the safety of refrigeration facilities.
13. I will support RETA local chapters to advance local influence and adherence to the RETA Code of Conduct.
14. I agree to inform RETA without delay of any changes that restrict my capacity to perform competently, safely and effectively without endangering the welfare of myself or others if I can no longer fulfill my obligations as a RETA-credentialed professional.
15. I agree to return any RETA credential to REA if it is suspended or revoked.
Adhering to the RETA Code of Conduct

All activities of the Refrigerating Engineers and Technicians Association (RETA) shall be conducted with policies and procedures consistent with RETA Bylaws and the RETA Code of Conduct. The RETA Code of Conduct shall apply to all RETA members, directors, officers, staff, task force members, certification candidates, certificate holders, employees and consultants. The RETA Code of Conduct is intended to maintain the confidence and respect of industry employers and their employees. It also is intended to protect the public’s health and safety as well as every person in a position of responsibility in the refrigeration industry.

Nondisclosure Agreement for RETA Certification Examinations

All RETA candidates must agree to the following policy statement protecting the security and validity of RETA examinations before they can begin their test. Each candidate reaffirm agreement to adhere to the RETA Code of Conduct and these rules before they may begin a RETA examination.

Any use of unauthorized materials during administration of a RETA examination may result in immediate disqualification and an automatic failing score. RETA may withdraw eligibility for certification from any candidate who uses prohibited materials during an examination, has any unauthorized contact with anyone other than test center staff during an examination, or engages in other unethical, disruptive or unprofessional behavior at a test center. RETA rules for candidate misconduct or suspicious circumstances, investigations, reexamination, disciplinary action and appeal procedures appear in the RETA Certification Exam Application and Handbook, which also includes the RETA Code of Conduct. All RETA candidates agree to cooperate with RETA in any investigation of test security, validity, conflicts of interest or possible violations of the RETA Code of Conduct as part of their application to take this examination. RETA policies also prohibit unauthorized possession or use of RETA examination materials in any form, including but not limited to recreating from memory, posting online or on any website, reproducing or disclosing to others any examination question or test-related materials or content that RETA does not release to all certification candidates. Any violation of these rules may constitute copyright infringement of RETA property and can be subject to legal action to recover the cost of creating additional questions and forms of RETA examinations. Any comments about the content of a specific question on a RETA exam can be shared only with RETA directly. Such comments may not be posted on any blog or other online discussion forum without violating US copyright laws that protect secure test materials. Such violations could result in disqualification for RETA certification of all candidates from any school or training program whose staff or students are found to have compromised the security and integrity of a RETA exam.

Options for Taking a RETA Examination

RETA administers certification examinations using the following delivery methods.

- Kryterion Testing Network (KTN) test centers are available in over 450 locations in the U.S. Most KTN centers are in community colleges, universities and in training centers.
- RETA Network Testing Centers are located in facilities where industrial refrigeration training is offered.
- Online Proctored (OLP) testing using the candidate’s personal computer. Most OLP testing occurs on a laptop computer with an internal webcam. RETA requires that the computer has at least a 15-inch diagonal screen to allow the candidate to use the onscreen references that appear next to questions for each RETA examination.
Candidate Behavior during RETA Certification Exams

You must present TWO forms of identification to test center staff on the day you are scheduled to take a RETA exam. They will be looking for a second signature that matches the one presented as your primary identification. Be sure that you have signed the reverse side of your credit card if you are going to use one as a second form of ID.

Any use of unauthorized materials during administration of a RETA certification examination may result in immediate disqualification and an automatic failing score. RETA may withdraw eligibility for certification from any candidate who uses prohibited materials during an examination, has any unauthorized contact with anyone other than test center staff during an examination, or engages in other unethical, disruptive or unprofessional behavior at a test center.

RETA may determine that a test score is invalid if evidence of misconduct or suspicious circumstances threaten the validity and security of RETA testing and certification programs. All candidates agree to cooperate in such investigations if evidence of problems in test administration or inappropriate candidate behavior before, during or after a test are reported as part of their application for a RETA credential. If doubts are raised about a score because of these or other circumstances, RETA expects cooperation in any RETA investigation of possible violations of test validity and security.

RETA reserves the right to cancel any exam score if, in the sole opinion of RETA, there is adequate reason to question its validity. RETA, in its discretion, may offer the individual an opportunity to take the examination again at no additional fee, offer the individual an opportunity to take the examination again including payment of all fees, or proceed with disciplinary action as described in these procedures.

Following any administrative exam irregularities, the Executive Director, on advice from the Consulting Psychometrician, will review the matter and decide whether to cancel scores, and whether the candidate may be offered a retest at RETA expense or at his/her expense. Such actions may be subject to appeal as described in these procedures.

Disciplinary Action

RETA may reject or suspend the eligibility of any certification candidate, suspend or revoke the certification of any certificate holder, or refuse to recertify any person who is found to have engaged in any of the following violations or any part of the RETA Code of Conduct:

1. Obtaining or seeking to obtain RETA certification through submission of fraudulent, misleading or untruthful statements or documentation of qualifications, training and experience.
2. Unauthorized possession or use of RETA examination materials in any form, including but not limited to recreating from memory, copying, posting on any website, reproducing or disclosing to others any examination question or test-related materials or content not released by RETA to all certification candidates.
3. Any conviction for criminal acts in connection with activities for which the individual is certified by RETA, including but not limited to drug- or alcohol-related offenses which could make the RETA-certified individual a possible threat to the health and safety of refrigeration facilities, other employees and the public.
4. Unauthorized or illegal use of any registered certification mark or logo owned by RETA.

RETA Disciplinary Policy and Procedures provide detailed information for bringing charges and for hearings and appeals related to disciplinary charges.
Completing the Application

Your RETA membership must be current at the time of application to qualify for the member rate. If your company is a corporate member, you (the certification applicant) must be one of the company’s designated members to qualify for the member rate.

1. Complete all sections of the application
2. Print or type all information except your signature.
3. If you are an RETA member, attach a photocopy of your current membership card to the application. This photocopy assists staff to ensure the correct processing of your application.
4. Include the appropriate application fee in the form of personal or company check, money order, or credit card information. Make your check payable to Refrigerating Engineers & Technicians Association. **Purchase orders are accepted, but a test cannot be scheduled until the purchase order has been paid by the company.**
5. Mail the application form with attachments and your payment to RETA.
   
   RETA Certification
   
   1725 Ferry Street SW
   
   Albany, OR 97322

You also can scan the application and email it to certification@reta.com or fax it to 541-497-2966.

6. **ALL RETA CERTIFICATION APPLICATIONS EXPIRE AFTER ONE YEAR UNLESS YOU REQUEST A 90-DAY EXTENSION BEFORE THE END OF YOUR ELIGIBILITY PERIOD. YOU FORFEIT YOUR EXAM FEES IF YOU DO NOT MEET THIS REQUIREMENT.**
7. Your application is incomplete until all information is provided and your fees are paid. You will be informed of any steps needed to finish your application. No test can be scheduled until these steps are completed. RETA reserves the right to verify the eligibility of any applicant.

Application for Online Proctored (OLP) Testing

RETA requires candidates who want to take a certification test on their own personal computer to complete an additional application for Online Proctored (OLP) testing. The application includes specifications for the computer and webcam that are required to administer tests online.

**Returned Check Fee $50**

Any applicant whose personal check is returned for insufficient funds is required to pay this fee. Remittance of fees thereafter must be by money order or certified check.

Scheduling an Examination

Test center appointments are scheduled through RETA. Contact RETA on business days between 8:00 am and 4:30 pm, Pacific Time. Be prepared to commit to securing a location, date and time before you call RETA. Most Kryterion® test centers have from 2 to 4 test stations available at a time. Staff will do their best to find a site and time that suits your needs.
Test Authorization Code
When your application is approved and all required fees are paid, you may schedule your exam. After you select a test location and date, you will receive an email from RETA that includes your examination authorization code. You will choose the location and will make an appointment with the test center. You will not be admitted to the examination without your test authorization code and photo identification.

Absences and Late Withdrawals
You will forfeit all fees if you fail to show at the test center at the appointed time without rescheduling at least four business days before your scheduled test date. If you withdraw your application for RETA certification at least five business days before your scheduled test date, you may request a refund of up to half the RETA application fee. If you are not able to test, you may not transfer your registration to another candidate.

Taking the Test and Receiving Your Scores
Each question will appear on the test center screen one at a time. You can record your answer to each question, skip the question, or mark it for review. You can review questions you have skipped or marked for review at any time. After you indicate that you have finished answering and reviewing questions, you may end the test. The test will end automatically if your time expires.

After you finish the test, a short survey will a few questions about your RETA testing experience. This is the best place to inform RETA about any concerns you might have about the test. RETA uses this feedback to improve the exam. You are encouraged to participate.

Your score report will tell you whether you passed or failed the examination, the percent of questions answered correctly, and section subscores. This report is e-mailed to you after you take the exam (this is one reason that it is essential that you have a valid e-mail address). A follow up report and your certificate will be mailed to you by Headquarters.

Rescheduling an Examination
Candidates may reschedule a test by contacting RETA Headquarters no less than four business days (96 hours) before the scheduled date of their test. Tests that are rescheduled after the 96 hour deadline will require a processing fee of $135 to cover the charges that RETA will be charged by the testing company.

Examination Fees for the CRST Examination

<table>
<thead>
<tr>
<th>Membership</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>RETA member</td>
<td>$735.00</td>
</tr>
<tr>
<td>Non-member</td>
<td>$1,030.00</td>
</tr>
</tbody>
</table>

Your RETA membership must be current at the time of application in order to qualify for the member rate. If your company is a corporate member, the certification applicant must be one of the company’s designated members to qualify for the member rate.

Re-examination
If you do not pass the examination, you may take the examination again one time at two thirds of the fee paid within one year following your initial test ($475 member / $670 non-member). To do so, you must submit a new application and fee. Minimum time between testing sessions is two weeks when accounting for US Postal Service delivery service. **YOU WILL HAVE 90 DAYS AFTER APPROVAL AND PAYMENT OF FEES TO SCHEDULE AND COMPLETE A NEW TEST.**
Confidentiality and Public Information
To ensure the security of the examination, the test materials are confidential and individual results will not be released to any person or agency except the candidate and RETA. A candidate’s individual test results will be released to others only upon the candidate’s written request. **To avoid the possibility of a release of your test results to others it is necessary that you provide RETA an email address that you control.** The instructions and communications, including test results, are emailed to the address you provide. If you use some other person’s email address as the contact address for you, they may have access to your results information.

When an operator has achieved RETA certification, that fact is considered public information. It is RETA's policy to verify certification upon request. RETA does not provide information about certification status other than whether an individual is certified.

Comments about Your Testing Experience
All candidates have the opportunity to comment about their RETA testing experience, the test center, and the test in a short survey at the end of each examination. All candidate comments are reviewed by the RETA psychometrician and the RETA Certification Committee.

Comments about Test Questions
Any candidate may request a review of the validity of a question on a RETA examination in their comments at the end of each examination period by listing the question number and describing why he/she thinks the question warrants further review. All questions on each RETA certification exam have been validated by the RETA Certification Committee and RETA's psychometrician (testing consultant). Candidate comments about any RETA exam question result in further review and revalidation of the question.

RETA also conducts periodic statistical reviews of candidate performance on each question. Even if no candidate(s) comment about a question, this performance data may trigger review and revalidation of a question. If changes in a question are justified during these reviews, all scoring adjustments are applied automatically to all candidate scores. Revised score reports are issued to any candidate whose status changes from fail to pass as a result of these procedures.

Appealing Scores
An appeal procedure is available to individuals who wish to contest an adverse RETA decision.

Candidates do not have the right of appeal of actions: (1) resulting from failure to meet published procedure(s), or (2) based on RETA’s actions in setting a passing score which resulted in the individual’s failure to pass the certification examination.

Candidates may appeal the results of an examination in writing via U.S. Mail, facsimile or E-mail to RETA headquarters within 14 calendar days after their examination date. RETA will respond in writing to all appeals after review of the candidate’s results by the RETA Certification Committee.
Requests for Special Accommodations
Candidates who are unable to complete a RETA certification exam under standard conditions must submit documentation to support their request for special accommodations. This request must specify the modifications of the test procedure that they believe are appropriate and must be submitted with their initial application for certification or recertification. RETA will evaluate each request to determine that it does not interfere with the candidate’s ability to perform the work of a certified refrigeration professional.

Test centers may accommodate candidates with disabilities that interfere with test taking. RETA will confirm with the testing center that they have the necessary facilities to address specific needs.

Any special accommodations must meet the criteria defined by the Americans with Disabilities Act (ADA). Candidates who qualify for such arrangements should be able to document similar steps that were part of their prior training and testing experiences. ADA also requires that RETA determine that a candidate who receives such accommodations must still demonstrate the ability to safely and effectively perform the duties required to qualify for the credential being awarded. ADA does NOT allow special accommodations that would substantially alter the skills required to perform a job or could limit a candidate’s ability to protect the health and safety of employees and the public.
Test centers may accommodate candidates with disabilities that interfere with test taking. Call RETA HQ to confirm that the testing center has the necessary fixtures and facilities to address your specific needs.

Improper Use of RETA Identification and Certification
RETA examinations and their content are the property of RETA. These examinations are available only to those persons who desire in good faith to become certified by meeting RETA certification requirements. By applying for RETA certification, each candidate agrees to the following provisions.
1. Refrigeration professionals may use the CARO, CIRO, CRES, RST or RAI designations when they meet all requirements established by RETA for those credentials.
2. All RETA examinations, certificates, cards, logos, patches and emblems and the names CARO, CIRO, CRES, RST and RAI are property of RETA and may not be used in any way without the express written consent of RETA. Individuals who pass current RETA examinations must comply with RETA rules in all references to RETA certification.
3. Any individual RETA suspends, reprimands, limits or revokes from RETA certification or authorization due to failure to meet RETA requirements shall immediately relinquish, refrain from using and correct at their own expense any outdated, inaccurate or otherwise inappropriate use of any RETA certificate, card, logo, patch, emblem, and references to CARO, CIRO, CRES, RST RETA certification.
4. If the individual refuses to relinquish immediately, refrain from using and correct at his or her expense any misuse or misleading use of such items when requested, the individual agrees that RETA shall be entitled to obtain injunctive relief, damages costs and attorney’s fees incurred in obtaining any such or other relief.
Changes in Certification Criteria

RETA may approve changes in these certification requirements at its discretion. The current version of this Handbook constitutes notice of these changes to applicants, candidates and certified persons. RETA policies at the time a candidate is initially certified remain in effect for the three-year term of certification. Any new or amended requirements must be met at the time a candidate applies for recertification.

Renewal of Certification

The RETA Code of Conduct requires all RETA certificate holders to participate in appropriate certification and training activities to demonstrate and maintain their competence in the refrigeration industry. Each RETA certificate expires three years after it is issued. Recertification candidates may establish that their knowledge and skills are still current for their level of RETA certification either by taking the current examination or by providing RETA with the required documentation of his/her qualifications for recertification. Recertification candidates whose past RETA credential has expired must retest. RETA does not accept PDHs from candidates whose RETA credential has expired.

Continuing education credits can be earned by documenting participation in professional training related to RETA certification at RETA chapter meetings, the RETA Annual Meeting, employer-sponsored training and refrigeration training seminars.

Training is measured in Professional Development Hours (PDHs) as determined by RETA. Each RETA credential requires PDHs relevant to the practice of refrigeration operation / service / repair / maintenance / engineering. One PDH can be earned for 50 minutes of instruction or participation. If a program awards continuing education units (CEU) rather than professional development hours, one CEU equals 10 professional development hours of class in an approved continuing education course. Documentation of PDHs for recertification may be submitted in the RETA Recertification Database or with a completed recertification application.

Professional development activities may include:

- Successful completion of a college or university course in the area of refrigeration operating / servicing / installation, related sciences, and engineering ethics. RETA will award PDHs based on a transcript documenting successful completion of any such course(s).
- Successful completion of professional engineering courses or programs in which professional development hours are earned.
- Successful completion of refrigeration operating programs, seminars, tutorials, workshops, short courses, on-line or in-house courses.
- Completing classes using RETA course books can earn 20 PDHs after the candidate passes a RETA examination on the content of the course.
- Attending program presentations at related technical or professional meetings, including the RETA Annual Conference.
- Teaching or instructing. Teaching credit is valid for teaching a course or seminar for the first time only. Two PDHs may be earned for every hour of teaching.
- Authoring papers or articles that appear in nationally circulated journals or trade magazines or presented to a professional society or organization. A maximum 10 PDHs per paper or presentation per renewal are allowed for this activity;
- Active participation on a RETA committee or holding an office in a Chapter as an elected officer. Two PDHs will be awarded per committee membership or office held. A maximum of 8 PDHs may be accepted per renewal period.
PDH programs, activities and course requirements

- Each approved course, program or activity must contribute to the advancement of professional skills and/or scientific knowledge of the recertification candidate in the practice of refrigeration system operations, services, design, installation and/or maintenance.
- Each approved course, program or activity must foster the enhancement of general or specialized practice and values of refrigeration operations, related sciences and/or engineering ethics.
- Each approved course, program or activity must be developed and presented by persons with education and/or experience in the subject matter of the program.

Acceptable providers for PDHs shall include, but not be limited to the following.

- Coursework provided by RETA Authorized Instructors (RAIs) using RETA educational materials.
- Chapter meetings with an educational presentation by a guest speaker (name/date/topic needs to be recorded on a roster certified by a Chapter Officer and filed with RETA HQ).
- RETA Annual Conference workshop courses.
- Regional RETA conference workshop courses.
- Colleges, universities or other educational institutions presenting courses related to industrial refrigeration.
- Other technical or professional societies or organizations including manufacturers (factory training either site-specific or in factory – procedures for documenting this training will be made available from RETA HQ).

RETA shall evaluate whether to award PDHs for training requested in an application for recertification or in the RETA Certification Database based on documentation provided by the candidate.

Candidate Notification and Appeals

- RETA will inform the candidate whenever PDHs requested as part of a recertification application cannot be applied toward renewing a RETA credential. The candidate must respond within 30 days with any new evidence in support of the candidate’s recertification before a decision to deny credit toward recertification will be reconsidered by RETA. Unsupported claims will be denied.
- RETA may require additional evidence demonstrating compliance with these requirements from any candidate. Each recertification applicant must provide evidence that training meets these recertification requirements before PDHs will be applied toward recertification.
- Candidate appeals of decisions regarding recertification are subject to the policies documented in Section 1800, Membership, of the RETA Policy and Procedures Manual.
Refrigerating Engineers & Technicians Association
CRST Certification Exam Application

Please print or type all information. Completed applications may be submitted:

- By mail to RETA Certification, 1725 Ferry Street SW, Albany, OR 97322
- By fax to 541-497-2966
- By Email as an attachment in a PDF to certification@reta.com

Call RETA at 541-497-2955 or toll-free at 844-801-3711 between 7:30am and 4:00pm Pacific Time if you have questions regarding your application or membership status. Please be sure to return all required pages of the application. Penmanship counts – please print clearly. Applications that cannot be read clearly may delay processing or result in errors in your RETA records.

You will receive your initial instructions, scheduling confirmation, and your test results via email. It is very important that you provide a valid e-mail address that you control when applying for certification. Your signature below acknowledges that you waive any Privacy Act issues if the email address provided by you is not one that is yours. Please contact RETA Headquarters if you do not have an e-mail address.

Your Name Exactly as it appears on your government issued ID. The testing center may not allow you to test if the information does not match.

Your name exactly as you want it to appear on your Certificate

Your individual RETA membership Number and Expiration Date

Company Name

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<th>Business Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
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<tbody>
<tr>
<td>Home Address</td>
<td>City</td>
<td>State</td>
<td>Zip</td>
</tr>
</tbody>
</table>

Home Phone           Work Phone

E-mail address IMPORTANT: A VALID E-MAIL ADDRESS IS MANDATORY – THIS IS WHERE INFORMATION ABOUT YOUR RETA EXAMS WILL BE SENT.

Do you have a need for special accommodations at the testing center? See page 14 for details. Documentation to support your request will be required.

WHERE I PLAN TO TAKE MY RETA EXAMINATION

RETA examinations are administered in RETA Network Test Centers and in Kryterion Testing Network (KTN) Test Centers throughout the U.S. Please check where you plan to take your RETA exam. A current list of KTN centers in the US is available on the RETA website.

RETA Network Test Centers
- 2022 RETA Annual Conference, Reno, NV
- Garden City Community College (GCCC)
- Lanier Tech, Oakwood, GA
- Northwest Technical Institute, Springdale, AR
- Wagner-Beinert, Fort Wayne, IN
- A Kryterion Testing Network (KTN) Center near

  CITY STATE

- I will apply to take an Online Proctored (OLP) test by submitting the RETA application for OLP Testing
You must have a current CARO/CIRO or documentation of at least 4 years of progressively responsible experience in the refrigeration field. Provide your certification ID number below.

CARO Certificate# __________________________ CIRO Certificate# __________________________

If you do not have a current RETA CARO or CIRO certification, you must complete and submit page 19 of this handbook with your CRST exam application

EXAMINATION FEES

The fee must be in the form of personal or company check, money order, credit card or purchase order.

All applications submitted without the required fee are incomplete until the fee is paid. You will not be permitted to schedule or take a test until the fee is paid. Be sure to include your membership number (if applicable) and expiration date. For corporate memberships, the applicant must be one of the designated members to qualify for the member rate.

ALL RETA CERTIFICATION APPLICATIONS EXPIRE AFTER ONE YEAR UNLESS YOU REQUEST A 90-DAY EXTENSION BEFORE THE END OF YOUR ELIGIBILITY PERIOD. YOU FORFEIT YOUR EXAM FEES IF YOU DO NOT MEET THIS REQUIREMENT.

RETA Certified Refrigeration Service Technician (CRST)

☐ $735 RETA member
☐ $1,030 Non-member
☐ Retesting Fee $475 / $670

(Previous exam must have been within the prior twelve months and is only available after your first failed exam)

All retests must be scheduled and taken within 90 days of retest exam fee payment

Payment method:
☐ Check payable to Refrigerating Engineers & Technician Association
☐ Credit card (VISA, MasterCard, American Express, Discover)
☐ Purchase order from a corporation or business followed by a check to RETA
  (Purchase order must be paid before the exam can be scheduled)

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<th>Credit card number</th>
<th>Expiration date</th>
<th>Security Code #</th>
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Print Name as it Appears on Card       Signature

Billing Address

Billing Phone Number

Send a receipt to: ☐ Email ________________________________

PO#: ________________________________ (exam CANNOT be scheduled until the PO is PAID)
**STATEMENT OF UNDERSTANDING**  
*This section must be completed by all candidates*

I hereby apply for RETA certification and verify that all information provided is accurate and I have read the CRST certification application handbook. I understand that any misrepresentation on this application will result in failure to become certified, and my application and examination fee will be forfeited. I understand that if I provide RETA an email address for my results transmittal that is not my own, I waive all rights that are associated with the Privacy Act. I authorize the evaluation and validation of my credentials by RETA. In furtherance of my application, I authorize any individual or organization who may have information concerning my credentials to provide such information to RETA. I hereby waive any claim for damages that I may have against RETA and any individual or organization that supplies such information by reason of any act or omission by any of them taken in good faith in connection with this application. I understand that the decision as to whether I qualify for certification rests solely and exclusively in RETA and that its decision is final. By signing and submitting this application, I also agree to adhere to the RETA Code of Conduct.

As a RETA Certified Professional I will:
- Comply with the relevant provisions of the RETA Certification program.
- Adhere to the requirements of the RETA Code of Conduct.
- Make no claims of being certified outside of the certification credential(s) I hold.
- Not use my RETA Certification status in any manner that brings disrepute to RETA or misrepresents RETA Certification with false or misleading statements.
- Not use my RETA Certification in a misleading manner.
- Discontinue my claim to RETA Certification if my certificate is revoked or if I fail to maintain my certificate through evidence of on-going training and the accrual of recognized Professional Development Hours and Continuing Education Units.
- Inform RETA without delay of any changes that restrict my capacity to perform competently, safely and effectively without endangering the welfare of myself or others if I can no longer fulfill my obligations as a RETA-credentialed professional.
- Return any RETA credential to RETA if it is suspended or revoked.

---

**Signature**  

**Date**

---

**Print Name**

---

**Material you studied to prepare for this examination**  
*(Check all that apply)*

- RETA IR-1  
- RETA IR-2  
- RETA IR-3  
- RETA IR-4  
- RETA BE-1  
- RETA BE-2  
- RETA IR-1 – Spanish  
- RETA Ammonia Refrigeration Compliance Guidelines  
- Electricity for Refrigeration, Heating and Air Conditioning  
- Industrial Refrigeration Best Practices Guide – Cascade Energy  
- Industrial Refrigeration Handbook – Wilbert Stoecker  
- Industrial Refrigeration Energy Efficiency Guidebook  
- Practical Problems in Mathematics for Heating and Cooling - IRC  
- Refrigeration Equipment – A.C. Bryant  
- Refrigeration Principles, Practice & Performance - C. Langley  
- TPC Training Series - SchoolCraft  
- Other (Please identify)

- Check here if you took an 8-40 hour course to prepare for this exam.  
  IF YES – Where did you receive this instruction?
CRST Experience Form

This page must be completed and submitted with your CRST exam application if you do not have a current RETA CARO or CIRO certification.

**Related Experience**

<table>
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<tr>
<th>Current employer (company name)</th>
<th>City</th>
<th>State</th>
<th>Your current job title</th>
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Please describe current and past refrigeration related responsibilities and experience for at least the previous four (4) years:

________________________________________________________________________
________________________________________________________________________
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List any energy management responsibilities and experience:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
CRST Application checklist

Be sure to:

- Obtain a valid e-mail address.
- Fill out the application form completely, pages 17, 18 and 19. Page 20 is needed if you do not have a current RETA CARO or CIRO Certification.
- If you are taking an Online Proctored (OLP) Test, a RETA Application for OLP Testing must also be submitted with the CRST Exam Application.
- Include your payment. If using a company purchase order, the exam cannot be scheduled until the purchase order has been paid.
- Mail to: RETA Certification
  1725 Ferry St SW
  Albany, OR 97322
  or FAX to: 541-497-2966
  or Email as an attachment in a PDF to: certification@reta.com
- Download the CRST Study Guide for your exam from the RETA website, (www.reta.com) under the Certification tab, then Certification Study Resources. Review the Study Guide carefully. TAKE YOUR PRACTICE EXAM!
- Review available Kryterion Testing Network (KTN) Test Center and RETA NETWORK TEST CENTER locations in the list on the RETA website.
- DO NOT CALL THE KTN TEST CENTER DIRECTLY – they cannot schedule your examination date or time. Call RETA HQ @ 541-497-2955
- Bring your RETA email provided test authorization code to the exam center. Report to the test center 15-20 minutes before your appointment
- Bring at least one government-issued form of photo ID such as a driver’s license or passport to the test center PLUS a second form of identification (this is a security and validity measure).
- Bring a simple calculator with you to the test center. The test center is not responsible for providing a calculator.
References and Training Options to Prepare for RETA’s CRST Examination

Several pathways exist to enable RETA certification candidates to acquire the knowledge and skills required to pass the RETA examinations. While RETA neither endorses nor guarantees that these study materials include all of the content areas in the RETA examinations, candidates who cannot or do not wish to use RETA course books can prepare for RETA certification using other materials such as these. Successful completion of a study course or review of materials such as these does not guarantee a passing score on any RETA certification examination.

Alternate References and Training as of September 2021
9. TPC Training Series – SchoolCraft
   102*  Reading Schematics and Blueprints
   109*  Industrial Safety and Health
   110*  Troubleshooting
   210*  Electrical Troubleshooting
   301*  Basic Mechanics
   461  Ammonia Refrigeration Basics
   462  Positive-Displacement Compressors
   463  Evaporators, Condensers and Controls
   464  Purging, Piping and Safety

*  Materials available for purchase from RETA