

| Instructor Information            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Instructor                        | Javier Chavez                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Email                             | chavezja@lamarpa.edu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Phone                             | (409) 984-6229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Office                            | Madison Monroe Educational - Room: 228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Office Hours                      | Mark Stiles Unit, TDCJ, Vocational Department<br>Monday, Tuesday ,Wednesday, Thursday, Friday 5am-11am                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Additional Contact Information    | Chavezja@lamarpa.edu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Course Information                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description                       | A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Required Textbooks                | <i>Textbook Purchasing Statement: A student attending Lamar State College Port Arthur is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.</i><br><br>1: Modern Refrigeration and Air Conditioning text book, 21th edition, Goodheart-willcox publishing, ISBN 978-1-63126-354-5. 2: Modern Refrigeration and Air Conditioning Lab Manual, 20th edition, Goodheart-willcox publisher, ISBN 978-1-63126-356-9. 3: Modern Refrigeration and Air Conditioning work book, 20th edition Goodheart-Willcox publisher IBSN 978-1-63126-355-2 |
| Additional Materials/Resources    | none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Corequisites/Prerequisites        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Learning Outcomes                 | PSLO 1. Demonstrates environmental safety practices. SLO 1. Students will demonstrate environmental safety practices. PSLO 2. Troubleshoots, services, and repairs air conditioning, heating, and refrigeration systems. SLO 2. Students will troubleshoot, service, and repair air conditioning, heating, and refrigeration systems PSLO 3. Performs technician duties safely. SLO 3. Students will perform technician duties safely. PSLO 4. Works effectively as a team member. SLO 4. Students will work effectively as a team member                                                                                                                                      |
| Program Student Learning Outcomes | PSLO 1. Demonstrates environmental safety practices. SLO 1. Students will demonstrate environmental safety practices. PSLO 2. Troubleshoots, services, and repairs air conditioning, heating, and refrigeration systems. SLO 2. Students will troubleshoot, service, and repair air conditioning, heating, and refrigeration systems PSLO 3. Performs technician duties safely. SLO 3. Students will perform technician duties safely. PSLO 4. Works effectively as a team member. SLO 4. Students will work effectively as a team member.                                                                                                                                     |
| Lecture Topics Outline            | 1. Course introduction; syllabus review. 2. Understanding principles Matter and Energy 3. Mass and Weight 4. Heat 5. Force,Work, and Power. 6. Basic Refrigeration 8. Identifying types of refrigerant. 9. System evacuation. 10.Electrical trouble shooting A/C systems. 11. Condensing 12. Trouble shooting refrigerant problems 13:Evaporating and metering Device. 14.High Side and low side 15. Prep for final exam 16. Final exam.                                                                                                                                                                                                                                       |
| Major Assignments Schedule        | 1. Course introduction; syllabus review. 2. Understanding principles Matter and Energy 3. Mass and Weight 4. Heat 5. Force,Work, and Power. 6. Basic Refrigeration 8. Identifying types of refrigerant. 9. System evacuation. 10.Electrical trouble shooting A/C systems. 11. Condensing 12. Trouble shooting refrigerant problems 13:Evaporating and metering Device. 14.High Side and low side 15. Prep for final exam 16. Final exam.                                                                                                                                                                                                                                       |
| Final Exam Date                   | August 26, 2024 - 5:00 AM Through December 13, 2024 - 11:00 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Grading Scale                     | 90 - 100 = A 80 - 89 = B 70 - 79 = C 60 - 69 = D Below 59 = F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Determination of Final Grade      | Tests - 50% Labs - 40% Final - 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Course Policies                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Instructor Policies               | 1.students must have close toed shoes. 2. no eating are drinking in class room 3. students are graded on participation, if a student is absent he/she can not get participation grade there for will result in a 0 for that class period. 4. Customers will expect Techs to act professional and talk professional. Cursing and profanity will not be allowed in class.                                                                                                                                                                                                                                                                                                        |
| Attendance Policy                 | 1. Tardiness: Tardiness (more than 5mins), for lectures or labs, 2 Tardies will count as an Absence. 2. Absences: NOTE: Excused absences (verifiable) are only allowed for, an illness that requires a hospital stay or a death in your immediate family, excluding aunts, uncles, cousins, nieces and nephews. 5 absences=drop 1 letter grade, 7 absences=drop 2 letter grades, 9-absences=drop 3 letter grades, 11 absences=F 3. A student with Perfect attendance will receive 15 bonus points added to your test points total at the end of the semester.                                                                                                                  |

| Additional Information                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Institutional Policies                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MyLSCPA</b>                                        | Be sure to check your campus email and Course Homepage using MyLSCPA campus web portal. You can also access your grades, transcripts, academic advisors, degree progress, and other services through <a href="#">MyLSCPA</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Academic Honesty</b>                               | Academic honesty is expected from all students, and dishonesty in any form will not be tolerated. Please consult the LSCPA policies (Academic Dishonesty section in the Student Handbook) for consequences of academic dishonesty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ADA Considerations</b>                             | The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the <a href="#">the Office for Disability Services Coordinator</a> , Room 231, in the Madison Monroe Building. The phone number is (409) 984-6241.                                                                                                                                                                                                                       |
| <b>COVID 19 Information</b>                           | The Lamar State College Port Arthur (LSCPA) Student Code of Conduct COVID 19 Policy requires students who have been diagnosed with COVID 19 to report their condition directly to their local health department. Students should also contact their course faculty to report their quarantine status. In addition, this policy requires all students to wear face coverings when directly exposed to COVID 19 in compliance with the criteria included in the policy. For more information please refer to the COVID 19 link on the LSCPA website.                                                                                                                                                                                                                                                           |
| <b>Facility Policies</b>                              | No food or tobacco products are allowed in the classroom. Only students enrolled in the course are allowed in the classroom, except by special instructor permission. Use of electronic devices is prohibited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>HB 2504</b>                                        | This syllabus is part of LSCPA's efforts to comply with Texas House Bill 2504.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Mandatory Reporting of Child Abuse and Neglect</b> | As per Texas law and LSCPA policy, all LSCPA employees, including faculty, are required to report allegations or disclosures of child abuse or neglect to the designated authorities, which may include a local or state law enforcement agency or the Texas Department of Family Protective Services. For more information about mandatory reporting requirements, see <a href="#">LSCPA's Policy and Procedure Manual</a> .                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Title IX and Sexual Misconduct</b>                 | LSCPA is committed to establishing and maintaining an environment that is free from all forms of sex discrimination, including sexual harassment, sexual violence, and other forms of sexual misconduct. All LSCPA employees, including faculty, have the responsibility to report disclosures of sexual misconduct, including sexual harassment, sexual assault (including rape and acquaintance rape), domestic violence, dating violence, relationship violence, or stalking, to LSCPA's Title IX Coordinator, whose role is to coordinate the college's response to sexual misconduct. For more information about Title IX protections, faculty reporting responsibilities, options for confidential reporting, and the resources available for support visit <a href="#">LSCPA's Title IX website</a> . |
| <b>Clery Act Crime Reporting</b>                      | For more information about the Clery Act and crime reporting, see the <a href="#">Annual Security &amp; Fire Safety Report</a> and the <a href="#">Campus Security website</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Grievance / Complaint / Concern</b>                | If you have a grievance, complaint, or concern about this course that has not been resolved through discussion with the Instructor, please consult the Department Chair.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Department Information</b>                         | <p>Inmate Instruction</p> <p>Chair: <a href="#">Sheila Guillot</a><br/> Email: <a href="mailto:guillsr@lamarpa.edu">guillsr@lamarpa.edu</a><br/> Phone: (409) 984-6381</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |