

Week 1: Introduction to Technical Vocabulary

- Introduction to technical vocabulary related to automotive engineering, such as powertrain, chassis, suspension, and aerodynamics
- Vocabulary exercises and practice

Week 2: Technical Writing for Racing Teams

- Overview of technical writing skills for racing teams, including how to write technical reports, design briefs, and project proposals
- Understanding the importance of clear and concise technical writing in the racing industry

Week 3: Motorsport Terminology

- Introduction to vocabulary related to motorsports, such as track conditions, lap times, and race strategies
- Vocabulary exercises and practice

Week 4: Communication Strategies for Racing Teams

- Understanding different modes of communication within a racing team, including radio communication and pit board signals
- Practice exercises in communicating effectively within a racing team

Week 5: Presenting Design Concepts and Progress Reports

- Introduction to vocabulary and language for presenting design concepts and progress reports to sponsors and judges
- Practice exercises in presenting design concepts and progress reports

Week 6: Project Management Vocabulary

- Introduction to vocabulary related to project management, such as critical path, milestones, and budgets
- Vocabulary exercises and practice

Week 7: Automotive Materials and Manufacturing Processes

- Introduction to vocabulary related to automotive materials and manufacturing processes, such as composites, injection molding, and welding
- Vocabulary exercises and practice

Week 8: Vehicle Dynamics Vocabulary

- Introduction to vocabulary related to vehicle dynamics, such as roll center, slip angle, and weight transfer
- Vocabulary exercises and practice

Week 9: Suspension and Steering Vocabulary

- Introduction to vocabulary related to suspension and steering systems, such as spring rates, dampers, and camber
- Vocabulary exercises and practice

Week 10: Aerodynamics Vocabulary

- Introduction to vocabulary related to aerodynamics, such as drag coefficient, downforce, and CFD simulations
- Vocabulary exercises and practice

Week 11: Electrical and Electronic Systems Vocabulary

- Introduction to vocabulary related to electrical and electronic systems in automotive engineering, such as sensors, actuators, and CAN bus
- Vocabulary exercises and practice

Week 12: Business and Marketing Vocabulary

- Introduction to vocabulary related to business and marketing in the racing industry, such as branding, sponsorship, and media coverage
- Vocabulary exercises and practice

Week 13: Professional Communication Skills for Racing Teams

- Overview of professional communication skills for racing teams, including how to negotiate with sponsors, pitch to investors, and work with the media
- Practice exercises in professional communication

Week 14: Ethics and Social Responsibility in Motorsports

- Introduction to ethics and social responsibility in the racing industry, including safety, sustainability, and diversity and inclusion
- Discussion and case study exercises

Week 15: Review and Assessment

- Review of course content and vocabulary
- Assessment of students' understanding of automotive-related English vocabulary, technical writing skills, and professional communication skills