

APPLIED THERMODYNAMICS BY RK RAJPUT Complete Guide

applied thermodynamics by rk rajput is widely regarded as one of the most comprehensive and authoritative textbooks in the field of thermodynamics, especially for engineering students and professionals. Authored by R.K. Rajput, this book serves as an essential resource that bridges the gap between theoretical principles and practical applications, making complex concepts accessible and applicable to real-world scenarios. Its meticulous presentation, clear explanations, and extensive problem sets have made it a preferred choice in various academic institutions for teaching applied thermodynamics. In this article, we delve into the core features of the book, explore its significance in engineering education, and highlight the key topics covered within its pages.

Overview of Applied Thermodynamics by R.K. Rajput

Applied thermodynamics is a branch of thermodynamics that deals with real-world applications, systems, and devices such as engines, turbines, refrigeration systems, and heat exchangers. R.K. Rajput's book emphasizes not only the fundamental principles but also their application to engineering problems. This approach helps students and engineers develop a practical understanding that can be directly applied to designing and analyzing thermal systems.

The book is well-structured, beginning with basic concepts and gradually progressing to more advanced topics. It is characterized by its systematic presentation, detailed derivations, illustrative diagrams, and numerous solved examples. These features facilitate better comprehension and enable learners to develop problem-solving skills essential for competitive exams and professional practice.

Main Features of the Book

Comprehensive Coverage

- Covers a wide range of topics including laws of thermodynamics, properties of pure substances, gas power cycles, vapor and gas turbines, refrigeration cycles, and more.
- Includes chapters on psychrometry, internal combustion engines, and innovative topics like renewable energy systems.

Clarity and Depth

- Explains complex concepts with clarity, supported by diagrams, charts, and tables.
- Provides detailed derivations to reinforce understanding of fundamental principles.

Numerous Examples and Problems

- Contains a large collection of worked-out examples that demonstrate application techniques.
- Offers practice problems with varying difficulty levels to prepare students for exams and real-life applications.

Updated Content

- Incorporates recent advancements and standard data, ensuring relevance in modern engineering contexts.
- Includes modern applications such as solar energy systems and eco-friendly technologies.

Key Topics Covered in Applied Thermodynamics by R.K. Rajput

The book is organized into several core sections, each focusing on critical aspects of applied thermodynamics. Below is a detailed overview of these sections.

1. Basic Concepts of Thermodynamics

- Definitions of system, surroundings, and universe
- Types of systems: open, closed, isolated
- Properties of a system: extensive and intensive
- Thermodynamic processes and cycles

2. Laws of Thermodynamics

- First Law: conservation of energy
- Second Law: entropy and irreversibility
- Statements of the Second Law
- Carnot theorem and efficiency
- Third Law of Thermodynamics

3. Properties of Pure Substances

- P-V-T relations
- Quality of steam and saturation states
- Mollier diagram
- Specific heats and equations of state

4. Power Cycles

- Carnot cycle
- Rankine cycle
- Otto cycle
- Diesel cycle
- Brayton cycle

5. Refrigeration and Air Conditioning Cycles

- Vapour compression cycle
- Vapour absorption cycle
- Coefficient of performance (COP)
- Practical refrigeration systems

6. Gas Power Cycles and Engines

- Internal combustion engines
- Gas turbines
- Jet propulsion
- Performance analysis and efficiency calculations

7. Psychrometry and Humid Air

- Moist air properties
- Psychrometric chart
- Heating, cooling, and dehumidification processes

8. Advanced Topics and Modern Applications

- Renewable energy systems

- Solar thermal and photovoltaic systems
- Thermodynamics of eco-friendly systems
- Recent developments in thermodynamic cycles

Importance of R.K. Rajput's Book in Engineering Education

Applied thermodynamics is fundamental to understanding how thermal systems operate, and R.K. Rajput's book plays a pivotal role in shaping competent engineers. Its importance can be summarized as follows:

- **Educational Excellence:** The book's clear explanations and structured approach make it ideal for undergraduate courses, ensuring students grasp core principles effectively.
- **Problem-Solving Skills:** Extensive examples and practice problems develop analytical skills necessary for solving real-world engineering problems.
- **Industry Readiness:** Knowledge of applied thermodynamics is essential for designing and optimizing thermal systems in industries such as power generation, automotive, HVAC, and renewable energy.
- **Research and Development:** The inclusion of modern topics encourages students and researchers to explore innovative solutions and sustainable energy systems.

How to Make the Most of the Book

To maximize learning from R.K. Rajput's "Applied Thermodynamics," consider the following approaches:

- **Thorough Reading:** Read each chapter carefully, paying close attention to definitions, laws, and derivations.
- **Practice Problems:** Solve end-of-chapter questions and additional problems to develop problem-solving skills.
- **Use Diagrams and Charts:** Visual aids like T-s and P-v diagrams are crucial; spend time understanding and interpreting them.
- **Relate Theory to Applications:** Connect concepts to practical devices and systems to enhance understanding.
- **Stay Updated:** Complement the book with recent research articles and technological advancements in thermodynamics.

Conclusion

In summary, **applied thermodynamics by rk rajput** remains a cornerstone textbook that effectively

combines theoretical foundations with practical applications. Its comprehensive coverage, clarity, and emphasis on problem-solving make it an invaluable resource for students, educators, and industry professionals alike. Whether you are beginning your journey in thermal engineering or seeking to deepen your understanding of real-world applications, this book offers the insights and knowledge necessary to excel. As thermodynamics continues to evolve with advancements in renewable energy and eco-friendly technologies, R.K. Rajput's work stands as a guiding light, equipping engineers to meet the challenges of sustainable development and innovative system design.

Applied Thermodynamics by RK Rajput: An In-Depth Review and Analytical Perspective

Introduction

Applied Thermodynamics by RK Rajput stands as a seminal textbook that has significantly influenced engineering education, especially in the field of thermal sciences. Renowned for its comprehensive coverage, clarity, and practical orientation, this book serves as an essential resource for students, educators, and professionals alike. Its detailed treatment of thermodynamic principles, coupled with real-world applications, makes it a vital text for understanding how theoretical concepts translate into engineering solutions. This review aims to explore the core features of the book, analyze its pedagogical strengths, and discuss its relevance in contemporary engineering practice.

Overview of the Book's Scope and Structure

Applied Thermodynamics by RK Rajput is structured to facilitate a progressive understanding of thermodynamic principles, from fundamental concepts to complex applications. The book typically spans multiple chapters, each dedicated to specific topics within the domain of applied thermodynamics, making it suitable as both a textbook and a reference manual.

Key Sections and Topics Covered

- Basic Concepts and Laws of Thermodynamics:
 - Definitions of system, surroundings, and boundaries
 - Zeroth, first, second, and third laws
 - Thermodynamic properties and processes
- Energy and Entropy:
 - Internal energy, enthalpy
 - Entropy and irreversibility

- Power Cycles:
 - Carnot cycle
 - Rankine cycle
 - Otto and Diesel cycles
 - Brayton cycle

- Refrigeration and Air Conditioning:
 - Vapour compression cycle
 - Vapour absorption cycle

- Gas Power Cycles:
 - Gas turbines
 - Jet propulsion

- Non-Conventional Power Cycles and Systems:
 - Combined cycles
 - Cogeneration systems

This modular structure allows learners to build their understanding systematically, from foundational principles to advanced applications, emphasizing both theoretical rigor and practical relevance.

Core Features and Pedagogical Approach

Applied Thermodynamics by RK Rajput excels in blending theoretical concepts with practical applications, which is crucial for engineering students and practitioners aiming to design and analyze thermal systems effectively.

Clarity and Precision in Explanation

RK Rajput employs lucid language and precise definitions, ensuring complex concepts are accessible. The explanations are supplemented with numerous diagrams, charts, and thermodynamic tables, which aid visualization and comprehension.

Extensive Use of Examples and Numerical Problems

The book is renowned for its extensive collection of solved examples and practice problems. These serve multiple pedagogical purposes:

- Reinforce understanding of theoretical concepts
- Demonstrate application of thermodynamic equations
- Develop problem-solving skills essential for exams and real-world applications

Focus on Real-World Applications

Throughout the chapters, RK Rajput emphasizes practical applications of thermodynamics, such as power plant cycles, refrigeration systems, and jet engines. This applied focus bridges the gap between theory and practice, making the learning process more engaging and relevant.

Use of Modern Standards and Data

The book incorporates contemporary data, efficiency standards, and technological advancements, ensuring that students learn with up-to-date information aligned with current industry practices.

Analytical Examination of Content Depth and Technical Rigor

Applied Thermodynamics by RK Rajput maintains a delicate balance between depth and accessibility, which is one of its core strengths.

Theoretical Foundations

The initial chapters provide a solid foundation in thermodynamic laws, properties, and processes, with rigorous derivations and explanations. This ensures that readers develop a thorough understanding of fundamental principles before progressing to complex systems.

Application-Oriented Topics

Chapters on power cycles, refrigeration, and gas turbines delve into detailed analyses, including efficiency calculations, component performance, and system design considerations. The inclusion of real-world parameters makes the content highly applicable.

Advanced Topics and Modern Systems

The book does not shy away from discussing advanced systems like combined cycles, cogeneration, and renewable energy-based systems. This forward-looking approach prepares students for emerging trends and challenges in energy systems.

Numerical Techniques and Data Handling

RK Rajput emphasizes the importance of accurate data handling and numerical methods. Many

chapters include step-by-step calculation procedures, encouraging meticulous problem-solving approaches crucial for engineering accuracy.

Strengths and Limitations in Educational Utility

Strengths:

- Comprehensive Coverage: The book covers a broad spectrum of topics, making it suitable for undergraduate and postgraduate courses.
- Practical Orientation: Focus on real-world systems enhances understanding and employability.
- Rich Pedagogical Resources: Numerous examples, practice problems, and review questions facilitate effective learning.
- Clarity and Readability: Well-structured content with clear diagrams and illustrations.

Limitations:

- Density of Content: The vast scope may overwhelm beginners if not supplemented with guided instruction.
- Depth on Emerging Technologies: While covering traditional systems extensively, some chapters could delve deeper into recent innovations like smart grids, renewable integration, or advanced materials.
- Digital Resources: Depending on the edition, supplementary digital resources like animations, simulations, or online quizzes may be limited.

Relevance in Contemporary Engineering and Future Perspectives

As the world shifts towards sustainable and renewable energy sources, the principles elucidated in Applied Thermodynamics by RK Rajput remain fundamentally relevant. The book's focus on thermodynamic cycles, energy efficiency, and system optimization aligns with current global priorities.

Contributions to Sustainable Engineering

The detailed analysis of combined cycles, cogeneration, and refrigeration systems provides a foundational understanding necessary for designing environmentally friendly energy solutions.

Educational Significance

The book continues to serve as a cornerstone in engineering curricula worldwide, fostering critical

thinking and problem-solving skills essential for innovation.

Opportunities for Expansion

To meet future demands, editions of the book could incorporate topics like:

- Renewable energy systems (solar, wind, biomass)
- Thermodynamics of sustainable processes
- Computational tools and simulation software integration
- Environmental impact assessments and lifecycle analysis

Conclusion

Applied Thermodynamics by RK Rajput remains a highly valuable resource that combines theoretical rigor with practical insights. Its systematic approach, clarity, and extensive problem-solving exercises make it a cornerstone text in the field of thermal engineering. While it could expand into newer domains of energy systems and digital tools, its foundational principles continue to underpin innovations in sustainable energy and thermodynamic system design. For students and professionals seeking a comprehensive guide that bridges theory with application, RK Rajput's Applied Thermodynamics continues to be an indispensable reference, fostering a deep understanding of the science that powers our modern world.

Question What are the key topics covered in 'Applied Thermodynamics' by R.K. Rajput? The book covers fundamental concepts of thermodynamics, properties of pure substances, first and second laws of thermodynamics, power cycles, refrigeration cycles, combustion, and gas turbines, providing a comprehensive understanding of applied thermodynamic principles. **Answer** How does R.K. Rajput's 'Applied Thermodynamics' facilitate understanding of real-world engineering applications? The book emphasizes practical applications through detailed explanations, numerous solved examples, and diagrams, enabling students to relate thermodynamic principles to actual engineering systems such as engines, turbines, and refrigeration units. What are the benefits of using 'Applied Thermodynamics' by R.K. Rajput for engineering students? It provides clear explanations, step-by-step problem-solving techniques, and a wide range of practice questions, which help students grasp complex concepts, improve problem-solving skills, and prepare effectively for exams and professional applications. Are there any recent editions of 'Applied Thermodynamics' by R.K. Rajput that include updates on current technologies? Yes, the latest editions incorporate recent advancements in thermodynamic systems, updated problem sets, and new chapters on topics like renewable energy systems and modern power plants, reflecting current technological trends. How does 'Applied Thermodynamics' by R.K. Rajput compare to other textbooks in the field? R.K. Rajput's book is highly regarded for its clarity, comprehensive coverage, and focus on practical applications, making it a preferred choice among students and educators for understanding applied

thermodynamics in engineering contexts.

Related keywords: thermodynamics, heat transfer, entropy, energy systems, thermodynamic cycles, laws of thermodynamics, power plants, refrigeration, thermal engineering, rk rajput

Applied Course English

Applied course English is an essential component of modern education, designed to equip students with practical language skills that can be directly applied in real-world situations. Unlike traditional English courses that primarily focus on literature and theoretical grammar, applied course English emphasizes communication, critical thinking, and the ability to use English effectively across various contexts. Whether in academia, the workplace, or daily life, mastering applied English skills is crucial for success in a globalized world. This article explores the different aspects of applied course English, its benefits, and how learners can maximize their learning experience.

Understanding Applied Course English

Applied course English is tailored to bridge the gap between theoretical language knowledge and practical application. It focuses on developing skills that are immediately useful, such as writing professional emails, participating in discussions, delivering presentations, and understanding cultural nuances in communication.

Core Objectives of Applied Course English

- Enhance listening and speaking skills for real-world interactions
- Improve writing proficiency for professional and academic purposes
- Develop reading comprehension of practical texts
- Foster intercultural communication awareness
- Build confidence in using English in diverse settings

Key Components of Applied Course English

Applied English courses incorporate various modules and activities designed to develop comprehensive language skills. These components ensure learners are well-prepared to use English effectively in their personal and professional lives.

Practical Communication Skills

Practical communication involves more than just speaking and writing; it encompasses effective listening, non-verbal cues, and contextual understanding.

- **Conversational English:** Engaging in everyday dialogues, interviews, and negotiations
- **Public speaking and presentations:** Delivering clear, confident speeches
- **Listening comprehension:** Understanding conversations, lectures, and multimedia content

Business and Professional English

A significant part of applied course English targets workplace communication skills.

- Writing professional emails and reports
- Participating in meetings and discussions
- Understanding business terminology and etiquette
- Preparing resumes and cover letters

Academic English Skills

For students aiming to pursue higher education, academic English is vital.

- Reading academic texts and research papers
- Writing essays, research proposals, and dissertations
- Understanding academic vocabulary and structures
- Citing sources and avoiding plagiarism

Benefits of Taking an Applied Course in English

Participating in an applied course English program offers numerous advantages that can significantly impact personal growth and career development.

Enhanced Communication Abilities

Learners develop the confidence to communicate effectively across different settings, whether in professional meetings, social gatherings, or academic environments.

Career Advancement Opportunities

Proficiency in applied English skills opens doors to international job markets, improves

employability, and prepares individuals for leadership roles.

Academic Success

Students with strong applied English skills find it easier to excel in coursework, research, and presentations, leading to better academic outcomes.

Cultural Competence

Understanding cultural differences in communication fosters respect and adaptability, which are highly valued in global interactions.

Personal Development

Building language skills boosts self-esteem, broadens perspectives, and encourages lifelong learning.

How to Maximize Learning in Applied Course English

To get the most out of an applied English course, learners should adopt effective strategies and practice regularly.

Active Participation

Engage fully in class activities, discussions, and group projects to enhance practical skills and confidence.

Consistent Practice

Dedicate time outside of class for reading, writing, and speaking exercises. Use language apps, join conversation clubs, or participate in online forums.

Real-World Application

Seek opportunities to use English in real-life situations, such as volunteering, internships, or travel.

Utilize Multimedia Resources

Incorporate podcasts, videos, and online courses to diversify learning and expose yourself to different accents and contexts.

Seek Feedback and Mentorship

Regular feedback from instructors or language partners helps identify areas for improvement and refine skills.

Popular Applied Course English Programs and Certifications

Various institutions offer specialized applied English courses tailored to different needs.

Academic English Programs

Designed for students preparing for university studies, these programs focus on academic writing, research skills, and comprehension.

Business English Courses

Targeted at professionals, these courses cover workplace communication, presentation skills, and business writing.

General English with Practical Focus

Suitable for learners seeking to improve overall communication skills for daily life and travel.

Certifications

Obtaining recognized certifications can validate your skills and enhance your resume, such as:

- Cambridge English: Business Certificates
- TOEFL and IELTS for Academic and Professional Purposes
- ESOL Certificates

Choosing the Right Applied Course English Program

Selecting the most suitable program depends on your goals, current proficiency level, and learning style.

Assess Your Goals

Identify whether your focus is academic, professional, or personal communication.

Evaluate Course Content

Ensure the curriculum aligns with your objectives and covers practical language skills.

Check Instructor Qualifications

Look for experienced instructors with expertise in applied linguistics and real-world teaching.

Consider Learning Format

Decide between online, in-person, or hybrid formats based on your schedule and preferences.

Conclusion

Applied course English plays a pivotal role in preparing individuals for effective communication in today's interconnected world. By focusing on practical skills such as business communication, academic writing, and everyday conversation, these courses empower learners to navigate diverse environments with confidence and competence. Whether you aim to advance your career, succeed academically, or simply become more proficient in English, engaging in an applied course can offer the tools and experience necessary to achieve your goals. Remember to stay committed, practice regularly, and utilize available resources to maximize your learning journey in applied course English.

Applied Course English: Unlocking Practical Language Skills for Real-World Success

In today's dynamic educational landscape, an applied course in English has become an essential component for students seeking to bridge the gap between theoretical language knowledge and practical communication skills. Unlike traditional English courses that focus solely on literary analysis or grammar rules, applied English courses emphasize the real-world application of language in diverse contexts—be it professional, academic, or everyday interactions. This approach prepares learners to confidently navigate the complexities of communication in a globalized world, making applied course English a vital asset for students aiming for success beyond the classroom.

What Is Applied Course English?

Applied course English is a specialized branch of language education that centers on the practical use of English in real-life situations. It integrates language skills—listening, speaking, reading, and writing—with contextual scenarios that students are likely to encounter outside of academic settings. The goal is to develop functional proficiency rather than just theoretical knowledge.

Key features of applied course English include:

- Focus on communication skills relevant to workplaces, social interactions, and academic environments.
- Emphasis on pragmatic language use, including idioms, colloquialisms, and formal/informal registers.
- Integration of multimedia resources like videos, podcasts, and real-world texts.
- Practical assessments that simulate real-life tasks, such as writing emails, giving presentations, or participating in debates.

The Importance of Applied Course English

In an increasingly interconnected world, mastery of English often serves as a gateway to global opportunities. An applied course in English provides learners with the tools to:

- Communicate effectively with diverse audiences.
- Navigate cross-cultural interactions confidently.
- Enhance employability by demonstrating practical language skills.
- Succeed in academic pursuits that require clear and precise communication.
- Engage in social settings with fluency and cultural awareness.

Furthermore, applied English courses foster critical thinking around language use, encouraging students to adapt their communication styles to various contexts, which is invaluable for personal and professional growth.

Core Components of an Applied Course in English

An effective applied English program typically encompasses several interconnected components designed to build comprehensive language competence:

- Listening and Comprehension Skills
 - Understanding spoken English in different accents and speeds.
 - Analyzing dialogues, interviews, and lectures.
 - Developing note-taking strategies for lectures or meetings.
- Speaking and Pronunciation

- Practicing pronunciation and intonation for clarity.
- Engaging in role-plays and simulations.
- Participating in discussions, debates, and presentations.

- Reading for Practical Use
 - Interpreting real-world texts such as instructions, reports, and articles.
 - Developing skimming and scanning techniques.
 - Analyzing tone and intent in written communication.

- Writing for Specific Purposes
 - Crafting professional emails, proposals, and reports.
 - Creating resumes and cover letters.
 - Writing summaries, reviews, and social media content.

- Cultural and Contextual Awareness
 - Understanding cultural nuances in language.
 - Navigating formal and informal registers appropriately.
 - Recognizing idiomatic expressions and colloquialisms.

Pedagogical Strategies in Applied Course English

Effective teaching methodologies are crucial to ensure learners gain practical competencies. Some common strategies include:

- Task-Based Learning: Focusing on completing real-world tasks such as booking travel, negotiating deals, or conducting interviews.
- Scenario-Based Activities: Simulating situations like job interviews or customer service interactions to build confidence.
- Integrative Projects: Group work that involves creating presentations, reports, or multimedia content.
- Use of Authentic Materials: Incorporating real documents, videos, and audio recordings from

authentic sources.

- Feedback and Reflection: Providing constructive feedback and opportunities for self-assessment to promote continuous improvement.

Benefits of Enrolling in an Applied Course in English

Students who participate in applied English courses reap numerous advantages:

- Enhanced Communication Skills: Ability to speak and write with confidence in various settings.
- Increased Employability: Skills valued by employers across industries?such as professional email writing, presentation delivery, and intercultural communication.
- Academic Success: Better comprehension and expression in research papers, seminars, and collaborative projects.
- Cultural Competence: Greater awareness of cultural differences influencing language use, leading to more respectful and effective interactions.
- Lifelong Learning: Development of adaptable language skills that evolve with changing contexts and technological advancements.

Practical Applications of Applied Course English

Applied course English equips learners to handle a broad spectrum of real-life situations, including:

- Workplace Communication: Writing reports, participating in meetings, and delivering presentations.
- Academic Interactions: Engaging in seminars, writing essays, and understanding academic texts.
- Travel and Hospitality: Booking accommodations, navigating transportation, and engaging with locals.
- Social Networking: Participating in community events, online forums, or social media with appropriate language use.
- Personal Development: Engaging in self-expression through blogging, journaling, or public speaking.

Challenges and How to Overcome Them

While applied course English offers clear benefits, learners may face obstacles such as:

- Language Anxiety: Practice in safe environments with peer support can build confidence.

- Cultural Barriers: Exposure to diverse contexts and cultural training helps mitigate misunderstandings.
- Limited Exposure: Supplementing coursework with real-world interactions, such as volunteering or internships, enhances practical skills.
- Resource Constraints: Utilizing online platforms, mobile apps, and community resources can provide additional practice opportunities.

Choosing the Right Applied Course in English

When selecting an applied English program, consider the following:

- Curriculum Relevance: Does it cover practical skills aligned with your goals?
- Instructor Expertise: Are instructors experienced in applied linguistics and real-world teaching?
- Assessment Methods: Do they include practical tasks and real-life simulations?
- Flexibility and Accessibility: Are classes scheduled conveniently? Are online options available?
- Student Feedback: What do former students say about their experiences and outcomes?

Final Thoughts: Embracing Applied Course English for Future Success

In an interconnected world where language skills can open doors to countless opportunities, an applied course in English serves as a strategic investment in your personal and professional development. By focusing on practical communication skills, cultural awareness, and real-world application, these courses empower learners to communicate with clarity, confidence, and cultural sensitivity.

Whether you're aiming to excel in your career, pursue further education, or simply navigate daily interactions more effectively, embracing applied English education is a step toward becoming a more competent, confident, and culturally savvy communicator. As language continues to evolve with technology and globalization, staying adaptable through applied learning ensures you remain competitive and capable in any environment.

Start exploring applied course English today and unlock your potential to communicate effectively across borders, cultures, and contexts!

Question What is the main focus of an applied course in English? An applied course in English primarily focuses on practical language skills such as communication, writing, speaking, and comprehension, often emphasizing real-world usage and professional contexts. **Answer** Who can benefit from taking an applied English course? Students, professionals, and non-native English speakers seeking to improve their practical language skills for academic, workplace, or everyday communication can benefit from applied English courses. How does an applied English course differ

from traditional English literature courses? Applied English courses focus on functional language skills and practical applications, whereas traditional literature courses emphasize analyzing texts, literary history, and critical theory. Are applied English courses suitable for non-native speakers? Yes, applied English courses are especially beneficial for non-native speakers aiming to enhance their conversational, writing, and professional communication skills. What skills are typically developed in an applied English course? Skills such as effective communication, academic writing, presentation, listening comprehension, and professional email etiquette are commonly developed in applied English courses. Can taking an applied English course improve my career prospects? Absolutely. Improved communication skills gained from an applied English course can enhance employability, facilitate workplace interactions, and open up opportunities in global and multicultural environments.

Related keywords: English language course, applied linguistics, ESL training, practical English skills, conversational English, business English course, academic English, English communication skills, professional English training, language proficiency course

Read the full article online: [APPLIED COURSE ENGLISH](#)