

# IRRIGATION AND DRAINAGE ENGINEERING LECTURE 1

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**What is irrigation and drainage engineering?** Irrigation & Drainage Systems Engineering (IDSE) covers all phases of irrigation, drainage engineering, hydrology and related water management subjects such as watershed management, weather modification, water quality, groundwater and surface water.

**Is irrigation engineering civil engineering?** Civil engineers are responsible for the design, planning and testing of buildings, towers, transport infrastructure, gas and water systems, sewerage schemes, irrigation systems, new mines and many more facilities.

**Who developed irrigation and drainage?** The earliest known systems of irrigation originated in Egypt and Mesopotamia in 6,000 B.C. Fighting against the flooding of the Nile several months each year, ancient civilizations pioneered a technique to divert flood waters to nearby crop fields, thereby utilizing excess flood water for crops that would otherwise be ...

**What does a drainage engineer do?** A drainage engineer is responsible for designing systems that move water or sewage from one place to another, as safely and efficiently as possible. This can involve visiting sites to gain an understanding of project requirements, as well as designing and overseeing the installation of these systems.

**What is difference between drainage and irrigation?** Simply put, drainage is water traveling out, and irrigation is watering traveling in. Irrigation is a word often used to describe methods of bringing water to plants in ways other than rain, although rain irrigates plants as surely as water from a canal, a pipe, or a watering

can.

**What is the basic irrigation engineering?** Irrigation engineering includes the study and design of works in connection with river control, drainage of waterlogged areas and generation of hydroelectric power.

**Is drainage part of civil engineering?** Tekton's civil engineers oversee things like grading and stormwater management, drainage systems and storm sewers. They are responsible for making sure the proper checks and balances are in place to keep these systems working.

**What is the role of a civil engineer in irrigation?** The tasks a Civil Engineer, Irrigation is expected to perform include: Planning, organizing and supervising construction of dams. Supervising maintenance of dams and other buildings.

**What are the three different types of irrigation systems?** There are three commonly used methods: surface irrigation, sprinkler irrigation and drip irrigation.

**What is the drip method of irrigation?** Drip irrigation is a type of micro-irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants, either from above the soil surface or buried below the surface. The goal is to place water directly into the root zone and minimize evaporation.

**What country invented irrigation?** The earliest archeological evidence of irrigation in farming dates to about 6000 B.C. in the Middle East's Jordan Valley (1). It is widely believed that irrigation was being practiced in Egypt at about the same time (6), and the earliest pictorial representation of irrigation is from Egypt around 3100 B.C. (1).

**What type of engineer deals with water drainage?** Drainage engineers deliver the drainage design on multi-disciplinary civil engineering projects, which includes storm drain systems, pond design, culvert analysis and bridge hydraulic analysis.

**Do structural engineers do drainage?** ground drainage impacts upon the design of foundations; which does fall within the structural engineer's design responsibilities.

**Who pays for drainage?** This page explains who is responsible for maintaining drains and sewers. Generally speaking, you're usually responsible for drains inside the boundaries of your property, while the sewerage company is responsible for lateral drains, which are usually outside of property boundaries, and sewers.

**What are the methods of irrigation and drainage?** The commonly used irrigation methods are surface, sprinkler, and drip irrigation. Each method has its own merits and demerits, depending on the soil, topography, type of crops, climate, water availability and quality, and investment, which are the guiding factors for selecting an adequate irrigation method.

**What are the three main components of an irrigation system?** An automatic sprinkler system is made of 3 main lawn sprinkler system components: a controller, valves and sprinklers. When the Controller reaches a programmed start time, it sends a signal to one of the valves telling it to open.

**What is the best method of irrigation?** Drip irrigation is the most water-efficient way to irrigate many different plantings. It is an ideal way to water in clay soils because the water is applied slowly, allowing the soil to absorb the water and avoid runoff. Drip devices use a fraction of the water that overhead spray devices use.

**What are the formulas used in irrigation engineering?** Some common formulas used in hydrology and irrigation engineering include: - The Rational Method formula, used to estimate peak runoff rates:  $Q = CiA$ , where  $Q$  is the peak runoff rate,  $C$  is the runoff coefficient,  $i$  is the rainfall intensity, and  $A$  is the catchment area.

**What is duty in irrigation engineering?** The duty means the area of land that can be irrigated with the unit volume of irrigation water or it is the area of land expressed in hectare that can be irrigated with unit discharge i.e. 1 m<sup>3</sup>/s flowing throughout the base period, expressed in days. It is expressed as ha/m<sup>3</sup>s. ?

**What is drain in irrigation engineering?** Drainage means the removal of excess water from a given place. Two types of drainage can be identified: i) Land Drainage: This is large scale drainage where the objective is to drain surplus water from a large area by such means as excavating large open drains, erecting dykes and levees and pumping.

## **How to construct a drainage system?**

**Who designs drainage systems?** All new build projects will require input from a drainage civil engineer in order to design a suitable underground drainage system and infrastructure to protect your building from damp, water penetration and flooding, as well as for the transport of water from the property into the mains sewer or water network.

**Is drainage considered plumbing?** Generally speaking, plumbing refers to the system of bringing fresh, clean water into your home (and gas). When you turn on a tap, the plumbing system carries water through an underground pipe network directly from your water supplier. Anything that takes water away from your property is regarded as drainage.

**What do irrigation engineers do?** They design irrigation systems that meet all requirements and comply with all regulations. Irrigation engineers develop cost estimates and environmental impact studies, identify and apply for outside funding, and are actively involved in construction on the job site.

**How do civil engineers provide clean water?** Engineers use a combination of various technologies and infrastructure to ensure the delivery of clean drinking water to cities worldwide. The process typically involves several stages, including water extraction, treatment, storage, and distribution.

**What is the difference between a civil engineer and a water engineer?** Civil engineers are largely responsible for maintaining roads, bridges, railways and the nation's water supply. Water resource engineers, in particular, ensure that the water supply infrastructure is effective and able to withstand natural disasters caused by climate change, aging and a growing population.

**What is an irrigation engineer?** Irrigation engineers work on large or complicated landscape irrigation projects or in states that require construction plans be approved by an engineer or landscape architect. Engineers analyze existing site surveys, conduct research and identify potential structural and environmental problems.

**What is the engineering definition of irrigation?** Irrigation is defined as the process of artificial supply of water to soil for raising crops. It is a science of planning

and designing an efficient, low-cost, economic irrigation system tailored to fit natural conditions.

**What engineer deals with drainage?** Drainage engineers research climate and environmental factors for the project site, such as flood risks and land erosion, then they design a drainage facility that meets the budget, usage, and aesthetic goals of the municipality.

**What is the meaning of irrigation and drainage canals?** The conveyance and distribution systems consist of canals transporting the water through the whole irrigation system. Canal structures are required for the control and measurement of the water flow. An open canal, channel, or ditch, is an open waterway whose purpose is to carry water from one place to another.

**How much do irrigation engineers make in the US?** \$38,000 is the 25th percentile. Salaries below this are outliers. \$50,000 is the 75th percentile.

**What is the highest salary in irrigation department?** Irrigation department salaries Salary rates can vary depending on where you are employed. In deriving an average wage, the lowest annual salary is \$5,35,598, and the highest rate is \$5,67,598.

**What is the best method of irrigation?** Drip irrigation is the most water-efficient way to irrigate many different plantings. It is an ideal way to water in clay soils because the water is applied slowly, allowing the soil to absorb the water and avoid runoff. Drip devices use a fraction of the water that overhead spray devices use.

**What are the classification of irrigation engineering?** These methods include surface irrigation, sprinkler irrigation, drip irrigation, and sub-surface irrigation, each offering unique advantages and suitability based on soil types, climates, and crop varieties.

**What is a drip system in irrigation?** Drip irrigation is a type of micro irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants, either from above the soil surface or buried below the surface.

**What is drain in irrigation engineering?** Drainage means the removal of excess water from a given place. Two types of drainage can be identified: i) Land Drainage: This is large scale drainage where the objective is to drain surplus water from a large area by such means as excavating large open drains, erecting dykes and levees and pumping.

**How to fix a drainage problem?**

**Why is drainage engineering important?** Drainage engineering is a dynamic and rewarding career where you will get the opportunity to: Manage flood risk, preventing damage to buildings and the transport network. Prevent water pollution. Encourage water reservation and water harvesting.

**Who fixes drainage?** Drain Repair and Maintenance Services Should you have a problem with your drain pipes or drain system, a plumber is the tradesperson you should call to help you fix the issue.

**What is the summary of irrigation and drainage?** Irrigation and drainage, artificial application of water to land and artificial removal of excess water from land, respectively. Some land requires irrigation or drainage before it is possible to use it for any agricultural production; other land profits from either practice to increase production.

**What are the three main components of an irrigation system?** An automatic sprinkler system is made of 3 main lawn sprinkler system components: a controller, valves and sprinklers. When the Controller reaches a programmed start time, it sends a signal to one of the valves telling it to open.

**What is a canal over drainage called?** The correct option is A Aqueduct. Aqueduct - In an aqueduct, the canal bed level is above the drainage bed level so a canal is to be constructed above the drainage. The canal water level is referred to as full supply level (FSL) and drainage water level is referred to as high flood level (HFL).

**How many questions are on the 1Z0-808 exam?** The OCA exam (1Z0-808) has a duration of 120 minutes, 56 questions, and a passing score of 65%. It validates skills related to Java SE 8.

**Is Oracle Java exam hard?** 2x Java | 1x Spring VMWare | 3x AWS | Flutter |... After examining the course outline, I was convinced that it would take me a couple of years of experience as a DEV to pass. Little did I know hard work towards the exam was all I needed. I must mention that this exam is difficult, much more so than you would expect!

**How to pass Java Oracle exam?**

**What is the exam code 1Z0-808?**

**Is OCA certification difficult?** Oracle's Java Certification has a tough passing percentage, close to 65% for both OCAJP (the Oracle Certified Associate Java Programmer) and OCPJP (the Oracle Certified Professional Java Programmer). You need in-depth knowledge of the Java language and API to succeed in the exam.

**What is the passing score for 1Z0-071?**

**How many times can I take Oracle exam?** Candidates may only take a failed exam 4 times in a 12-month period. Each attempt must be paid separately via voucher, credit card, or subscription renewal. Exams that are part of a special promotion will be governed by the terms of that promotion.

**How many attempts for Oracle Java certification?** Exam Retake Policy Candidates may not retake a passed exam at any time. Candidates may take a failed exam only four times in a 12-month period.

**Can you get a job with Oracle Java certification?** Getting an Oracle Java certification can be a game-changer for your career! It shows employers that you're an expert in Java programming and can open up exciting job opportunities in software development, web development, and more.

**Is Oracle exam easy?** Enthware accurately simulates the exam's difficulty, and I admit it's very, very tough. Oracle essentially expects you to become a living compiler, and it's stressing me out a lot.

**How much does the Oracle Java exam cost?** Oracle Certified Associate Java Programme (OCAJP) So, to become a certified professional, you must invest around

\$245. This program's Java certification cost in India is around 20k to 25k rupees.

**Is Java SE 17 certification hard?** Overall, the test was hard in terms of breadth of topics and depth of understanding required. You can't just read a topic cursorily and expect to answer exam questions on it. For example, the questions on enums required that you know the complete ins and outs of how they work.

**Is Java certification worth it in 2024?** Java certification is a valuable credential for developers seeking to validate their skills and knowledge in one of the most popular programming languages in the world.

**What is the difference between 1Z0-808 and 1Z0-809?** The OCPJP certification i.e., 1Z0-809 exam is different from the OCAJP test i.e., 1Z0-808 exam in terms of advanced coverage of topics. For example, the 1Z0-809 exam deals with topics such as Advanced Java Class Design and Lambdas built-in functional interfaces.

**How much does 1Z0 815 cost?** How much the 1Z0-815 exam will cost? The exam will cost you \$245 USD including the additional taxes. What is the time duration for the 1Z0-815 exam? You will get 180 minutes to complete the Oracle 1Z0-815 exam.

**How to pass the Oracle exam?** The test requires knowledge on how to set up database environments and secure Oracle instances in any network environment. Other concepts needed to pass this exam include understanding of database backup and recovery, Oracle Database Architecture, as well as configuration of security instances.

**Which Oracle certification is easiest?** Oracle Database Administration certification is considered one of the best oracle certifications for beginners. The course stresses the fundamentals of databases before proceeding to an advanced database curriculum.

**How hard is Java Oracle certification?** The exam is (really) hard, but it is not impossible. So persevere. I had worked with Java a good 6+ years prior, but it still felt like the exam was on a different level. Be prepared to put in the hours if you want to get certified!

**Can I cheat in Oracle certification?** Cheating Hurts the Oracle Certification Program. As mentioned above, candidates who cheat instead of properly preparing



for an exam dilute the certification value for everyone who holds the certification, thereby diluting the value of the certification program as a whole.

**Is Oracle certification hard?** Yes, the Oracle DBA certification exam is tough, but with dedication and the right resources, you can definitely pass it. Think of it as an investment in your career. Not only does it enhance your skills, but it also opens up opportunities for higher-paying roles in top companies.

**Is Oracle 1Z0-071 worth it?** But if you need to access databases, extract useful information, and use that data, preparing for the Oracle Database SQL Certified Associate can teach you everything it takes to control databases. If you want to learn database skills, preparing for the 1Z0-071 is an excellent way to get a rock-solid foundation in SQL.

**How many questions are on the 1Z0 819 exam?** 1Z0-819 exam (Oracle Certified Professional, Java SE 11 Programmer) in contrast with 1Z0-809, flips everything by merging the OCA and the OCP topics into a single exam. Moreover, the number of questions is reduced to 50 and the exam duration is also reduced to 90 minutes.

**How many questions are on the GPEN exam?** To earn the GPEN certification, practitioners must pass the GIAC GPEN exam. The proctored exam has the following specifications: A 3-hour time limit. 115 multiple-choice questions.

**How many questions are on the PCEP exam?** Exam Details: Certified Entry-Level Python Programmer The Certified Entry-Level Python Programmer exam is an entry-level exam that has a code PCEP-30-01. Further, the exam consists of 30 questions which are in the form of Single-choice and multiple-choice questions, drag & drop, gap fill questions.

**How many questions are on the CPT exam?** This exam can be administered either in-person or online, and is proctored. You'll have 2 hours to answer 120 questions. The test must be taken within 180 days of your enrollment date, and requires a scaled score of 70 or better to pass.

## **Writing Academic English Across the Disciplines: A Q&A**

**Introduction:** Writing academic English is a crucial skill for students and scholars in all disciplines. It enables effective communication of complex ideas and research

findings. This article addresses common questions about writing academic English across different fields.

**Q1: What is the importance of clarity and precision in academic writing? A:** Clarity and precision are essential for conveying ideas effectively. Avoid ambiguous language, jargon, and colloquialisms. Use specific, concrete terms and define key concepts to ensure that readers understand your intent.

**Q2: How do the writing styles differ across disciplines? A:** Different disciplines have unique writing conventions. In the social sciences, for example, a more personal and narrative style may be acceptable, while in the sciences, a more objective and impersonal style is preferred. Familiarize yourself with the norms of your field.

**Q3: What are some common challenges in writing academic English for non-native speakers? A:** Non-native speakers may face challenges with grammar, vocabulary, and sentence structure. To overcome these, focus on understanding the underlying grammatical rules and practice using appropriate academic vocabulary. Seek feedback from native speakers or language tutors for refinement.

**Q4: How can I avoid plagiarism in academic writing? A:** Plagiarism involves using someone else's work without proper attribution. To avoid it, cite all sources accurately and paraphrase or quote ideas while giving due credit to the original authors. Use plagiarism detection software as an additional tool.

**Q5: What resources are available to support academic writing? A:** Many universities offer writing centers, workshops, and online tutorials. There are also numerous books, articles, and websites that provide guidance on academic writing. Additionally, consider joining writing groups or seeking peer feedback to improve your skills.

**Conclusion:** Writing academic English across the disciplines requires careful consideration of clarity, precision, discipline-specific conventions, plagiarism avoidance, and available resources. By addressing these aspects, students and scholars can effectively communicate their research findings and contribute meaningfully to their respective fields.

**What is Letrs Unit 8 about?** In Unit 8, The Reading-Writing Connection, participants will gain insight into reasons writing is so hard for students, learn how to prepare students for writing, understand how to help students gain competence in building sentences, learn how to support narrative compositions, understand how to teach informational and ...

**Which statement best describes effective writing instruction?** What statement best describes effective writing in instruction? It integrates teaching of foundational skills and composition.

**What are the benefits of having students write in responses to text?** Writing as a response to reading benefits students in several ways. It allows them to reflect on the ideas presented in text, become familiar with patterns in language, and share opinions about what they've read.

**What would be the best way to begin teaching students how to write a sentence?** Keep it Simple in the Beginning Teach kids to create a simple sentence with one noun and one verb. Cut out the nouns and verbs from the pdfs below to get started. Model how to put a noun and verb together to form a sentence. Some sentences will be silly, but they'll enjoy them when reading.

**What is a passing score for LETRS?** There are two main assessments within LETRS. One is after Units 1-4 and the other is after Units 5-8. Both assessments must be passed to meet the READ Act Training Requirement. Passing score expectations are 80% for each assessment to receive the READ Act designation.

**How many questions are on the LETRS unit 1 assessment?** Unit assessments (10 questions) are given at the end of each LETRS unit. Volumes 1 and 2 each have four unit assessments. The unit assessment is not timed, and you can reference your notes or manual.

**What is the recommended order for teaching letter formation in Letrs Unit 8?** What is the recommended order for teaching letter formation? Teach lowercase letters first, then uppercase letters.

**What are the three things you should emphasize when writing instructions?**

**What are the five parts of effective instruction?** The plan for instruction that is systematic is carefully thought out, builds upon prior learning, is strategic building from simple to complex, and is designed before activities and lessons are planned. Instruction is across the five components (phonemic awareness, phonics, fluency, vocabulary, and comprehension).

**How to reply to a text when you don't know what to say?**

**What are the most challenging sentence writing skills for students to learn?** Sentence construction To write, kids have to know how to construct sentences that make sense. But kids often have a hard time understanding and using correct sentence structure. They may not understand the placement of verbs or how verb tenses work. They may also use sentences that are too simple or incomplete.

**How to develop writing fluency?**

**How to teach grammatically correct sentences?** By creating sentence puzzles, you can provide students with an enjoyable and interactive way to reinforce their skills. Jumble up words and challenge them to rearrange them to form grammatically correct sentences. Games like 'Sentence Relay' or 'Sentence Scramble' can be used to make learning fun.

**How to help students stop writing run-on sentences?** 1 Divide the clauses into two sentences Often in writing, the best way to fix a run-on sentence is to split it into two or more separate sentences. Be sure to capitalize the first letter of each sentence and use a period, question mark, or exclamation point between them.

**What words should I use to start a sentence?**

**Do you have to do bridge to practice in LETRS?** To receive “READ Act Approved” status, participant must complete Bridge to Practice activities and receive supervisor approval. Bridge to Practice activities must be complete and approved by a supervisor by deadlines.

**How do you pass LETRS training?** Attend all four days of Unit training, with one full day dedicated to each Unit in the Volume (Units 1–4 or 5–8). These can be virtual or in person, spread across several months. Pass the end-of-course exam

following Unit 4 or Unit 8 with a score of 88% or better.

**Why is LETRS so important?** LETRS® (Language Essentials for Teachers of Reading and Spelling) is proven professional development designed to help teachers master the content and principles of effective language and literacy instruction. Its content extends across the five essential components of reading plus oral language, spelling, and writing.

**What is LETRS Unit 1 about?** In Unit 1, The Challenge of Learning to Read, participants will gain an understanding of what the brain does when it reads, exactly how children will learn to read and spell, and skills to use to support proficient reading. This unit will lay the foundation for why reading really is rocket science!

**How many sessions are in LETRS unit 1?** LETRS Online Learning Platform — Each unit in the online learning platform consists of sessions. Units 1-4 each have eight sessions, and Units 5-8 each have six sessions. To reinforce your understanding, you will complete activities throughout each session.

**What makes the English writing system more difficult?** The language features grammatical rules that are often broken, an alphabet that can confuse people who are used to a character-based system, and spelling and pronunciation irregularities that perplex even native speakers.

**Which letters do you teach first?** Letters that occur frequently in simple words (e.g., a, m, t) are taught first. Letters that look similar and have similar sounds (b and d) are separated in the instructional sequence to avoid confusion. Short vowels are taught before long vowels.

**How do you practice letter formation?**

**What are the first 5 letters to teach?** The first set of letters to introduce to your kids are s, a, t, p, i, n. The combination of these letters make up the word families: “at,” “an,” “it,” “ip,” “ap,” and “in.”

**What is Unit 8 APWH about?** Unit 8: End of Empire & Cold War. The United States and the Soviet Union rose as global superpowers as empires crumbled in the face of resistance. The two trends worked together to shape the late twentieth century.

**What is the main focus of LETRS training?** LETRS helps educators understand “how” students learn to read and write, recognize the reasons “why” some students struggle, and determine “what” must be taught to increase student success.

**What is the recommended order for teaching letter formation in LETRS Unit 8?** What is the recommended order for teaching letter formation? Teach lowercase letters first, then uppercase letters.

**What skill is important for a student just learning to read LETRS?** Reading sight words and understanding word patterns are crucial skills for a student just learning to read. By focusing on decoding words and identifying main ideas in a text, students can develop a strong foundation in reading.

**How do I study for APWH unit tests?**

**What is Unit 1 in AP World History?** AP World History: Modern. Unit 1 – The Global Tapestry, 1200-1450. Unit 1 Overview: The Global Tapestry.

**What units are mostly on the AP World History exam?**

**How hard is LETRS training?** It can take upwards of 160 hours to complete over the course of two years.

**Do you have to do bridge to practice in LETRS?** To receive “READ Act Approved” status, participant must complete Bridge to Practice activities and receive supervisor approval. Bridge to Practice activities must be complete and approved by a supervisor by deadlines.

**What is the LETRS test?** The Lexia LETRS® (Language Essentials for Teachers of Reading and Spelling) Suite is comprehensive professional learning designed to provide early childhood and elementary educators and administrators with deep knowledge to be literacy and language experts in the science of reading.

**How many sessions are in Letrs Unit 8?** LETRS Online Learning Platform — Each unit in the online learning platform consists of sessions. Units 1-4 each have eight sessions, and Units 5-8 each have six sessions. To reinforce your understanding, you will complete activities throughout each session.

**Which letters do you teach first?** Letters that occur frequently in simple words (e.g., a, m, t) are taught first. Letters that look similar and have similar sounds (b and d) are separated in the instructional sequence to avoid confusion. Short vowels are taught before long vowels.

**How do you practice letter formation?**

**How many hours does it take to complete LETRS training?** Time to complete LETRS The time to complete the reading, online, and Bridge to Practice activities will vary, but as a rough guide, each volume takes approximately 48-60 hours of individual study to complete. Online course (including reading/participant manual): approximately eight hours per unit.

**How to get LETRS trained?**

**Does LETRS help with dyslexia?** LETRS addresses the structures of English language, the cognitive processes of learning to read, and the teaching practices proven to be most effective in preventing and remediating reading difficulties, including dyslexia.

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