

INFLUENCE OF BINDER FORMULATION ON BATCH AGGLOMERATION

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How does binder viscosity affect particle agglomeration? Increasing the binder viscosity increased the formation of agglomerates by immersion of powder particles in the surface of the binder droplets. With a larger powder particle size, an increasing binder viscosity was necessary in order to obtain an agglomerate strength being sufficient to avoid breakage.

What is the role of binder in tablet formulation? Binders are important materials included in the formulation of tablets to facilitate bonding of powder particles during granulation. They ensure the agglomeration and cohesion of the granules to each other, promoting appropriate compactibility and free-flowing properties [13].

What are the factors affecting particle agglomeration? [4], agglomeration may be consolidated with other unit operations, and factors such as physical and chemical properties, particle sizes, thermal sensitivity, and final product handling properties are decisive in selecting the agglomeration process.

What is the effect of binder concentration on particle size? Moreover, binder concentration influences granule size and porosity [30, 45] . With an increase in binder, granule size increases due to increase in coalescence of particles. ...

What is the effect on the tablet formulation if too much binder is added? The uniformity of the tablet's features depends on the quality of the binder added to the formulation. A high concentration of binder can cause hard granulation, whilst insufficient quantity of the binder would result to fragile granulation. Large quantities

of granulating liquid can cause coarse and hard granules.

What is the main purpose of a binder? The basic purpose of binders is to assist in shaping of the component during injection molding and to provide strength to the shaped component. Binders act as a medium for shaping and holding the metal particles together until the onset of sintering.

What is the primary function of a binder? A binder or binding agent is any material or substance that holds or draws other materials together to form a cohesive whole mechanically, chemically, by adhesion or cohesion.

How does viscosity affect particle size? Viscosity Decreases with Increasing Particle Size Distribution (Span) Particles that have a wide span/distribution (large polydispersity) can be packed in a better manner than a suspension of particles of the same size (narrow distribution).

How does viscosity affect IMF? The stronger the intermolecular forces, the higher the viscosity. This is because stronger intermolecular forces require more energy to overcome, making it more difficult for the molecules to move past each other. Intermolecular forces are the attractive or repulsive forces between molecules.

How does viscosity affect chromatography? So if a high-viscosity liquid is used as the HPLC mobile phase, a higher pressure will be observed. Thus, when a chromatographer is choosing a mobile phase component, the lowest viscosity mobile phase should be chosen.

How does viscosity affect adhesion? Some fluids, such as petroleum jelly, have very high viscosity at room temperature but are easy to pump due to their shear-thinning and low adhesive nature. Other fluids with considerably lower viscosity are much harder to pump eg. honey, epoxy resin, due to their Newtonian, adhesive properties.

Shifting the Monkey: The Art of Protecting Yourself from Toxic Individuals

Todd Whitaker, the author of "Shifting the Monkey: The Art of Protecting Good People from Liars, Criers, and Other Slackers," shares his insights on handling difficult individuals.

1. What is the "Monkey" and How Do You Avoid Picking it Up?

The "Monkey" refers to the emotional burden or manipulation that toxic individuals try to place on others. To avoid picking it up, establish boundaries and communicate your expectations clearly. Don't allow them to dump their problems or guilt-trip you.

2. How Can You Identify a "Monkey Shifter"?

Monkey shifters often exhibit patterns of lying, exaggerating, manipulating, or playing the victim. They try to make you responsible for their own actions or problems. Observe their behavior and trust your instincts.

3. What are Some Strategies for Dealing with Monkey Shifters?

- **Set Boundaries:** Establish clear limits and enforce consequences when they are crossed.
- **Use Assertiveness Techniques:** Express yourself clearly and firmly, without being aggressive.
- **Validate their Feelings (Without Enabling):** Acknowledge that their emotions are valid, but don't let them dictate your actions.
- **Avoid Confrontation:** Instead, focus on finding solutions or removing yourself from the situation.

4. How Can You Protect Yourself from Emotional Manipulation?

- **Recognize Emotional Triggers:** Identify the specific words or behaviors that make you feel manipulated.
- **Take Time to Respond:** Avoid reacting immediately. Take a moment to process your emotions and consider your options.
- **Seek Support from Others:** Surround yourself with people who understand and support your boundaries.

5. What are the Benefits of Shifting the Monkey?

By protecting yourself from toxic individuals, you can:

- Reduce stress and anxiety
- Improve your mental health
- Increase productivity
- Build stronger relationships with healthy individuals

Soal CPNS Gratis: Prediksi Soal Tes CPNS

Paragraf 1:

Ujian Calon Pegawai Negeri Sipil (CPNS) merupakan salah satu tes yang banyak diminati. Untuk mempersiapkan diri menghadapi tes ini, tersedia berbagai sumber soal CPNS gratis yang dapat digunakan untuk latihan. Soal-soal ini umumnya dibuat berdasarkan prediksi materi yang akan diujikan, sehingga dapat membantu peserta ujian dalam meningkatkan pemahaman dan kemampuan mereka.

Paragraf 2:

Salah satu jenis soal yang sering muncul dalam tes CPNS adalah Tes Wawasan Kebangsaan (TWK). Soal TWK mencakup materi seperti Pancasila, Undang-Undang Dasar 1945, sejarah Indonesia, dan kebhinekaan. Contoh soal TWK: "Jelaskan nilai-nilai Pancasila yang terkandung dalam sila kedua."

Paragraf 3:

Jenis soal lain yang umum diujikan adalah Tes Intelegensia Umum (TIU). Soal TIU mengukur kemampuan berpikir logis, numerik, dan spasial. Contoh soal TIU: "Jika $x + y = 5$ dan $x - y = 1$, maka nilai x adalah....?"

Paragraf 4:

Dalam tes CPNS juga terdapat Tes Karakteristik Pribadi (TKP). Soal TKP bertujuan mengukur kepribadian dan potensi seorang peserta ujian. Contoh soal TKP: "Bagaimana Anda mengatasi tekanan dalam pekerjaan?"

Paragraf 5:

Dengan memperbanyak latihan menggunakan soal CPNS gratis prediksi, peserta ujian dapat meningkatkan peluang mereka untuk lulus tes. Soal-soal ini membantu

mengidentifikasi area yang perlu diperkuat, sehingga peserta ujian dapat fokus pada materi yang belum dikuasai. Selain itu, latihan dengan soal prediksi juga membantu mengurangi rasa gugup dan meningkatkan kepercayaan diri saat menghadapi tes sebenarnya.

What do you need for N4 electrical engineering? To enter N4 – student must have Grade 12 certificate (with a pass in Maths and science above 40%), N3 certificate in engineering studies or equivalent qualification with appropriate subjects. To enter N5 –student must have N4 Certificate in electrical engineering or equivalent qualification.

What is N4 equivalent to? It is considered equivalent to a post-matric certificate and aims to provide students with practical skills and knowledge. N4 courses are designed to be: Vocational.

What is the hardest subject in electrical engineering?

What is N4 engineering? Mechanical Engineering is a discipline of engineering that applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems.

Is N4 considered beginner? For the JLPT N4, you need to know around 300 kanji and 1,500 vocabulary words. In order to pass the N4, you'll need to have spent a fair bit of time studying. While the exam is still considered beginner level, you cannot pass the N4 without putting in some study.

Is N4 good enough? JLPT N4 may not be enough to get you a job or get you into a college in Japan. But it can be quite difficult to know what order to learn things, and following the JLPT trajectory is helpful because it always tells you what your next objective is.

How long does it take to complete N4? This course lasts between 6 to 12 months to be completed and it has 60 credits. Only after you have finished level N4, you will be able to study for the NATED N5 Certificate, and when you have finished it, you can study for the NATED N6 certificate.

What does the N stand for in N4? The National N-Diploma is a three year post-matric qualification consisting of a theoretical part (N4 – N6) and two years industry

experience in the Electrical Engineering field. The N4 – N6 Certificate Programmes are post-matric National Certificates leading towards obtaining a National N-Diploma.

What level is N4 equivalent to?

Is electrical engineer harder than electrician? An electrical engineer usually completes a four-year bachelor's degree, while an electrician may undergo on-the-job training, apprenticeships, or certificate programs at a trade school. As their education level differs, the scope of work also changes.

Which branch of electrical engineering is the hardest? However, there are several classes commonly considered to be the most challenging in this field: 1. Signals and Systems: This course introduces the fundamentals of signal processing and linear systems analysis.

Which engineering degree is the hardest? The 'hardest' engineering majors are chemical, electrical, and aerospace engineering, based on some of the key areas of difficulty we've been considering. Chemical and electrical engineering involve higher levels of abstraction.

How to pass N4 engineering? The pass requirement is a minimum of 40% per subject. Evaluations are cumulative, based on regular class tests and practical testing.

What is N4 used for? Pill with imprint N4 is White, Round and has been identified as Perphenazine 16 mg. It is supplied by Wilshire Pharmaceuticals, Inc. Perphenazine is used in the treatment of Psychosis; Nausea/Vomiting and belongs to the drug classes phenothiazine antiemetics, phenothiazine antipsychotics.

What is N4 class? The JLPT N4 Class is an intermediate-level Japanese language course that prepares students for the Japanese Language Proficiency Test (JLPT) N4 level. It focuses on developing language skills, cultural understanding, and proficiency required for everyday interactions and basic survival in Japan.

Is N4 harder than N5? N5 is pretty basic (retrospectively, hard at the time) but N4 contains a lot more nuance than N5 although it won't be too apparent until later on.

What grade level is N4? N5 roughly equates to 1st-2nd elementary grade, and N4 is more like 2nd-3rd grade.

What is the pass score for the N4? The passing score for the Japanese Language Proficiency Test (JLPT) N4 is 90 points out of a possible 180 points.

How long does it take to learn N4?

What percent do you need to pass N4? N4 requires 90/180 points (50%) and 19/60 (31.67%) in each section to pass. N3 requires 95/180 points (52.77%) and 19/60 (31.67%) in each section to pass. N2 requires 90/180 points (50%) and 19/60 (31.67%) and 38/120 (31.67%) in each section respectively to pass.

Can you get a job with JLPT N4? The first two levels N5 and N4 are considered to be classroom-level Japanese, while N3 serves as a preparation level for the more technical and complex levels N2 and N1. So, to find a job in any way, shape, or form in Japan, it's safe to say that you'll at least need to pass N5 and N4 levels.

Is it hard to pass N4? JLPT N4 can be a challenge, but it's important to note that at the end of the day, it is just a test and will not provide any benefits for doing business in Japan or challenge those who already have basic knowledge of the language.

What degree is N4? N4 Certificate NQF Level Holding an N4 certificate signifies that the holder has completed the first stage of higher education in a specific technical or vocational field. The learners will acquire the necessary knowledge and skills for various technical and vocational careers.

What is the passing rate for the N4? Summary [Japanese Language Proficiency Test N4 level] There are N1 to N5 levels (N1 is the most difficult). The N4 level is "able to understand basic Japanese. The passing score for N4 is 90 points, and the passing rate is about 30 to 43%.

What is N3 equivalent to? N3 ENGINEERING STUDIES/N3 TECHNICAL MATRIC This is Equivalent to MATRIC for those who do not have a MATRIC CERTIFICATE at all. It can also be combined with OLD SYLLABUS/OLD MATRIC CURRICULUM to acquire a MATRIC CERTIFICATE.

Where does N4 start and end? The N4 is a national route in South Africa that runs from Skilpadshek on the Botswana border, past Rustenburg, Pretoria, eMalahleni and Mbombela, to Komatipoort on the Mozambique border.

What is N7 equivalent to? N7 - equivalent to the section of the current N10 from Ncanaha to just past Middelburg. N8 - equivalent to the section of the current R64 from Kimberley to Bloemfontein.

What are the requirements for N4?

What do you need to pass N4? The passing score for the Japanese Language Proficiency Test (JLPT) N4 is 90 points out of a possible 180 points. It is also required to score at least 38 points in language knowledge and reading comprehension, and 19 points in listening comprehension.

What is a Level 4 electrical engineer qualification? The Pearson BTEC Level 4 HNC in Electrical & Electronic Engineering qualification comprises of a minimum of 120 credits. 50 credits of 3 mandatory/core units and 70 credits of a minimum of 4 specialist units.

What are the minimum requirements for electrical engineering? Candidates with a Grade 12 National Senior Certificate (NSC) and a minimum score of 32 points on the CUT scoring scale, plus a minimum mark of 50% to 59% (level 4) in both English, Physical Sciences and Mathematics, may be admitted directly to the programme.

How long does it take to finish N4? Each level takes six months full time to complete. A total of 18 months to complete the theoretical components (N4, N5 and N6). Each level consists of four subjects. On completion of a level, a student is awarded a certificate at that level.

How long does it take to do N4? It can take between six (6) to twelve (12) months to complete the N4 to N6 National Certificates. This depends on whether you are completed one course, two courses, three courses or the entire programme. One course (N4 National Certificate) can take between six (6) to twelve (12) months to complete.

What is the difference between N4 and N5? This deeper understanding prepares students for more advanced roles within their industry. For example, if you are studying engineering, the N5 level will provide more complex insights and hands-on skills compared to the N4 NQF level. This enhanced training equips students to handle more demanding job responsibilities.

What percent to pass N4? N4 requires 90/180 points (50%) and 19/60 (31.67%) in each section to pass. N3 requires 95/180 points (52.77%) and 19/60 (31.67%) in each section to pass. N2 requires 90/180 points (50%) and 19/60 (31.67%) and 38/120 (31.67%) in each section respectively to pass.

How many lessons are there in N4? In total, there are over 132 grammar lessons that you need to know in order to pass the N4.

What is N4 class? The JLPT N4 Class is an intermediate-level Japanese language course that prepares students for the Japanese Language Proficiency Test (JLPT) N4 level. It focuses on developing language skills, cultural understanding, and proficiency required for everyday interactions and basic survival in Japan.

What is the highest level of electrical engineer? A doctoral degree in electrical engineering is the terminal degree in the discipline. Typically, students complete these programs in 5-6 years and go on to pursue careers in research and development or as professors in academia.

What are the subjects for electrical engineers? A student will take several core subjects when pursuing a course in Electrical Engineering. Amongst these, five stand out as being the most important. These are: Power Systems, Control Systems, Signals and Systems, Electrical Machines and, Microprocessors.

What is level 7 electrical engineering? The Bachelor of Engineering in Electrical Technology (Level 7) is an add-on ordinary degree, specifically designed for those with a level 6 qualification in a cognate electrical field. A candidate should have relevant experience in a technical role in the electrical services or industrial sector.

What degree is required by most electrical engineers? Electrical and electronics engineers typically need a bachelor's degree in electrical engineering, electronics engineering, or a related engineering field. Programs include classroom, laboratory,

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and field studies. Courses include digital systems design, differential equations, and electrical circuit theory.

What is the minimum GPA for electrical engineering? To study a bachelor's degree in electrical engineering at a leading university, prospective students should meet the following requirements: A cumulative Grade Point Average (GPA) of at least 3.0 in high school studies. A strong background in science (primarily physics) and mathematics.

How high is the demand for electrical engineers? Job Outlook Overall employment of electrical and electronics engineers is projected to grow 7 percent from 2020 to 2030, about as fast as the average for all occupations. About 22,700 openings for electrical and electronics engineers are projected each year, on average, over the decade.

[shifting the monkey the art of protecting good people from liars criers and other slackers author todd whitaker published on, soal CPNS gratis prediksi soal soal tes CPNS, n4 electrical engineering subjects](#)

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