

## Chapter 1 : A&E Contract Information

*The Engineers Joint Contract Documents Committee (EJCDC) develops and updates fair and objective standard documents that represent the latest and best thinking in contractual relations between all parties involved in engineering design and construction projects.*

Contract Engineer Job Description Contract Engineer Job Description A Contract Engineer is a specialist in the field of engineering, who oversees projects, conducts reviews and studies the legalities of the contract between the client and the engineer and makes sure that all terms of the contract are tended to fairly. A contract engineer also must draft commercial tenders, and also sometimes must estimate the budgets of a specific project, before the administrating or awarding of the contract. Contract Engineer Duties and Responsibilities A Contract Engineer deals mainly with writing up and preparing the paperwork, and working on the contractual conditions of a project, between the clients and the engineers. Because a contract engineer is often the person between two businesses, their job can take on a lot of responsibilities and duties. We analyzed several job postings to identify these common Contract Engineer duties and responsibilities. Draft Contracts Contract Engineers draft and review contracts, often adding or changing clauses according to the specifications of stakeholders. Handle Issues with Contracts During each stage of development, problems with contracts can arise, and a contract engineer must be able to allay them. Keep Records This includes drawings, field notes, sketches, reference manuals and any other engineering materials and making sure that they are noted in the contract, and that all information is dictated. Execute Contracts During the development process, letters must be drafted and signed by various people including clients, subcontractors, project managers and governmental overseers. Contract Engineer Skills Being a contract engineer requires a litany of skills – ones that will help with paperwork, with management, with people as well as with the projects being developed. That is why the skillset for a contract engineer must be vast and diverse, to be hired by any client. Basic social and technical skills are needed, however some of the competences that are specific to contract engineers are as follows: Contract management – the ability to draft, alter and draw up numerous contracts for clients. Project management – having detailed knowledge within the engineering and contracting business is a must, as it helps in identifying problems, and contributing to solutions related to the project. Contractor billing and rate analysis – contract engineers are in charge of calculating the project costs, investments, commercial bids as well as contractor payment and rates. Tender preparation – preparing various offers for clients before contractual agreements are set. Expert mathematical skills – many of the duties for a contract engineer is calculating projected project costs, commercial bids, tenders as well as salaries. Of course, a senior contract engineer earns almost double that at certain companies, and so as it is for most jobs, the longer you work, the more you earn. Moreover, there are numerous other requirements that are needed for a contract engineer to be hired, and below are the main ones. Competent technical expertise and application domain knowledge, so classes in mechanical engineering and database engineering can also help widen the search pool Additional Compliance Specialist Resources The following links are blogs, LinkedIn groups, articles and websites all with the aim of helping teach about and discuss the various jobs, duties, responsibilities for contract engineers: Generally, for research and job search for all contract building services professionals and CAD Contract Appreciation Document professionals. Contract Engineer Duties – A very useful article where a contract engineer answered a question by posting, in great detail, all of his responsibilities and duties as a contract engineer. The Lien Zone Podcast – A helpful podcast about the inner-workings of a construction project, especially from a legal and contractual point of view. Tips on starting a contract engineering job – This is an article that provides a step-by-step analysis of what a contract engineer should do before and after starting on a new job. Contract Engineering article – A long resource for contract engineers, discussing their usefulness from the point of view of an engineer.

*Shop Contract Documents. Reduce conflicts and avoid litigation* – the Engineers Joint Contract Documents Committee (EJCDC) develops and updates fair and balanced contract documents that represent the latest and best thinking in contractual relations among all parties involved in engineering design and construction projects.

Characteristics[ edit ] The NEC is a family of standard contracts, each of which has these characteristics: Its use stimulates good management of the relationship between the two parties to the contract and, hence, of the work included in the contract. It can be used in a wide variety of commercial situations, for a wide variety of types of work and in any location. It is a clear and simple document - using language and a structure which are straightforward and easily understood. When it was first launched in , it was simply the "New Engineering Contract". This specific contract has been renamed the "Engineering and Construction Contract" which is the main contract used for any construction based project. It now sits alongside a number of other contracts that together should mean that the NEC suite is suitable for what ever stage of a lifecycle the project is at and for any party within a project. The contracts available within the suite are: Suitable for any construction based contract between an Employer and a Contractor. Priced contract with activity schedule Option B: Priced contract with bill of quantities Option C: Target contract with activity schedule Option D: Target contract with bill of quantities Option E: Cost-reimbursable contract Option F: The core clauses of the main option listed above are used in conjunction with the secondary options and the additional conditions of contract. The clauses of these options have been be adapted for simpler less risky work short contracts , for use as subcontracts, and for professional services such as design as below. There is very little difference between the ECC and the ECS, other than the names of the parties are changed contractor and subcontractor and some of the timescales for contractual responses are altered to take into account the timescales required in the ECC contract. The Engineering and Construction Short Contract ECSC This is an abbreviated version of the ECC contract and most suitable when the contract is considered "low risk" not necessarily low value on a project with little change expected. This contract is still between the employer and contractor but does not use all of the processes of the ECC making it simpler and easier to manage and administer. The Professional Services Contract PSC This contract is for anyone providing a service, rather than doing any physical construction works. Designers are the most obvious party that fit into this category. Whilst they are producing a design for an employer or contractor, they would sign up and follow the clauses within the PSC. Most of the clauses within this contract are the same or similar to those in the main ECC contract, so that all contractors, designers and subcontractors have pretty much the same obligations and processes to follow as each other. It is frequently used as a subcontract to the PSC for design work. Framework Contract FC Parties enter into a "framework" of which work packages will then be let during the life of that framework. Any individual projects will then be awarded using one of the other contracts within the suite, meaning that the parties follow the headline clauses within the framework contract which is a fairly slim contract and then the individual clauses within the chosen contract for that package. Different work packages can be let using different contracts during the life of the framework. This contract is not generally used for constructing new works, but can include some amount of betterment. It is an abbreviated version of the main TSC. The Supply Contract is for big bespoke items i. Neither of these contracts cover working on a Site. It can include a range of different services to be provided before, during and after engineering and construction works are completed. It was created to support Clients who wish to take a step forward by fully integrating the delivery team for large complex projects. The ALC should be used to engage in a single collaborative contract with a number of participants in order to deliver a project or programme of work. The basis of the contract will be that all parties work together in achieving Client objectives, and share in the risks and benefits of doing so. Guidance Notes and Flowcharts For each of the different contracts listed above each comes with its own set of guidance notes and flowcharts which should aid understanding of the intent of the drafted clauses. The guidance notes expand on each clause to give extra substance and intent of the original drafters as to how a clause should be understood and interpreted. The flowcharts then map out each of the main processes within each contract and

demonstrate how it should operate and what to do next if a party has or has not carried out the next contractual action. History[ edit ] Originally contracts in the civil engineering and construction industries were bespoke and drafted by Chancery pleaders using their knowledge of leases rather than building processes. For civil engineering the need for a formalized approach to contracts led the Institution of Civil Engineers to produce the ICE formalized set of conditions of contract. In , this resulted in a consultative form of the New Engineering Contract form of contract. The first edition was published in The first edition of NEC was launched in NEC2 arrived two years later, in After a series of successful NEC3 projects in the region, the Hong Kong government announced in November that the NEC contract suite will be used for all future public works projects as far as practicable. Other common misinterpretations are minutes of meetings as communications , deleted work and paying for correcting defects. Employers often use the additional conditions of contract Z-clauses to amend or delete contract provisions relating to these items. Relational contractsâ€™NEC in perspective. Lean Construction Journal, 2,

### Chapter 3 : Engineering Contracts Training Course

*A lump sum contract is used for engineers who are hired to do a specific job or project for an agreed fixed sum. This type of contract often pertains to projects that are simple in scope and have little or no chance of altering while the project is underway.*

### Chapter 4 : NEC Engineering and Construction Contract - Wikipedia

*Engineering contracts We encourage all Engineering New Zealand members to follow recognised professional practice when communicating with clients on commercial matters. To help you do this, we worked with ACENZ and other key stakeholders to develop two standard contractual documents.*

### Chapter 5 : EJCDCA® Contract Documents | National Society of Professional Engineers

*With this kind of contract the engineer and/or contractor agrees to do the a described and specified project for a fixed price. Also named "Fixed Fee Contract". Often used in engineering contracts.*

### Chapter 6 : Contract Documents | ASCE

*Engineering Contracts is intended for those who wish to acquire skills in drafting, negotiating and working with commercial and engineering contracts. It aims to bring a different approach to the subject; combining the traditional legal perspective of the law of contract with the needs of the commercial manager or engineer who is seeking.*

### Chapter 7 : Engineering contracts | Engineering New Zealand

*The New Engineering Contract (NEC), or NEC Engineering and Construction Contract, is a formalised system created by the Institution of Civil Engineers that guides the drafting of documents on civil engineering and construction projects for the purpose of obtaining tenders, awarding and administering contracts.*

### Chapter 8 : Engineering Contracts | City of Mesa

*Engineering Contracts. Show/Hide. Learn about the six questions for Mesa residents on the November 6th ballot. City of Mesa Home Menu. Translate e City of Mesa.*

### Chapter 9 : The Types of Engineering Contracts | racedaydvl.com

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*The services of Engineer are to commence upon the signing of the contract, and the final contract plans and documents will be available, ready for advertising for bids, within \_\_\_\_\_ days after receipt of notice to proceed.*