# **CST WAVEGUIDE TUTORIAL**

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How to give waveguide port in CST?

What is the difference between waveguide port and discrete port in CST? Waveguide ports simulate a real waveguide that is connected to the antenna, while discrete ports simulate a lumped source that is directly connected to the antenna. The waveguide port takes into account the size and shape of the waveguide, which affects the impedance and phase of the signal.

What should be the size of waveguide port in CST? CST manual shows a very simple method for the waveguide port setup in Microwave studios. Generally the width of the port is 5\*times width of the Microstrip line, while the length doesn't effect the overall settings (as per my experience). It is better to use HFSS from the point of waveport dimension.

What are the basics of waveguide? The basic structure of a dielectric waveguide consists of a longitudinally extended high-index optical medium, called the core, which is transversely surrounded by low-index media, called the cladding. A guided optical wave propagates in the waveguide along its longitudinal direction.

What is a waveguide port? Waveguide ports represent a special kind of boundary condition of the calculation domain, enabling the stimulation as well as the absorption of energy. This kind of port simulates an infinitely long waveguide connected to the structure.

How do I choose a waveguide? Factors Influencing Waveguide Material Selection Frequency Range: The choice between dielectric and conductive waveguides depends on the frequency range of the signals being transmitted. Conductive materials are more suitable for higher frequencies, while dielectric materials are

often used at lower frequencies.

Why do we use waveguide instead of transmission line? Advantages of Waveguides Power loss is very negligible in waveguides. They offer very low loss lowvalueofalpha?attenuation. When microwave energy travels through waveguide, it experiences lower losses than a coaxial cable.

What are the types of ports in CST? Ports in CST MICROSTRIPES; now fall into one of two fundamental categories: waveguide-and-transmission-line-ports, or wire-ports. At present it is not possible to attach a port inside a lumped-component circuit.

What is the difference between 802.1 D and CST? 802.1d is the IEEE spanning-tree algorithm that prevents loops in a layer 2 network. CST is an implementation of 802.1d where there is only one instance of STP running for all the vlans in your layer 2 network no matter how many vlans that is.

What is the operating frequency range of waveguide? Waveguide operating band The accepted limits of operation for rectangular waveguide are (approximately) between 125% and 189% of the lower cutoff frequency. Thus for WR-90, the cutoff is 6.557 GHz, and the accepted band of operation is 8.2 to 12.4 GHz. Remember, at the lower cutoff the guide simply stops working.

What are the slots in a waveguide? A slot-waveguide consists of two strips of a high index material separated by a sub-micrometer low index region (slot region). The principle of operation of this structure is based on the discontinuity of the electric field at the high-index-contrast interface.

What is the impedance of a waveguide transmission line? Both impedance terms are functions of frequency and mode. As a Microwaves101 rule of thumb, waveguide wave impedance is approximately 500 ohms for standard rectangular waveguide. our Waveguide loss spreadsheet, loccated in the download area, calculates wave impedance for you.

# What are the three 3 modes of waveguide?

What is the formula for waveguide? In the waveguide, each specific mode has its unique cutoff frequency determined by the dimensions of the waveguide and the mode number by the relation f c = c 2 (m a) 2 + (n b) 2, where is the speed of CST WAVEGUIDE TUTORIAL

light, and are the width and height of the waveguide and are the mode numbers.

### What are the disadvantages of waveguide?

#### How to add port in CST?

What is the purpose of a waveguide? A waveguide is a hollow metallic channel that has either a rectangular or a cylindrical cross-section. The main purpose of a waveguide is to direct electromagnetic wave from a microwave source (e.g., a magnetron) to a microwave applicator (e.g., an oven cavity).

Which waveguide is better? Rectangular waveguides have a number of advantages over other types of waveguides. First, they have a larger cross-sectional area, which allows for the transmission of higher power levels. Second, they have a lower cutoff frequency, which means they can transmit lower frequency signals.

**How do you excite a waveguide?** Excite a waveguide structure with TEM, quasi-TEM, TE, or TM modes. A Modal Waveguide Interface is an excitation that is well suited for classic rectangular and circular conducting pipes. One or more higher order modes can be defined, allowing S-parameters to be computed between them.

What type of waveguide is widely used? Circular waveguide (optical fibers). Circular waveguides, commonly referred to as optical fibers, are the most common form of light waveguide used for optical communication. The advantage of optical fibers for sensing applications is the capability to be used as a probe.

What is the cut-off frequency for a waveguide? The cut-off frequency is the frequency above which the waveguide offers minimum attenuation to the propagation of the signal. Frequencies below the cut-off frequency are attenuated by the waveguide. The dominant mode in a waveguide is the propagation mode with the lowest cut-off frequency.

**Is a coaxial cable a waveguide?** Coaxial cable may be viewed as a type of waveguide. Power is transmitted through the radial electric field and the circumferential magnetic field in the TEM mode. This is the dominant mode from zero frequency (DC) to an upper limit determined by the electrical dimensions of the cable.

What is the difference between a two wire transmission line and a waveguide? Transmission Line – A two conductor structure that can support a TEM wave. Waveguide – A one conductor structure that cannot support a TEM wave. Q: What is a TEM wave? A: An electromagnetic wave wherein both the electric and magnetic fields are perpendicular to the direction of wave propagation.

What are the basics of waveguides? A waveguide is a structure that guides waves by restricting the transmission of energy to one direction. Common types of waveguides include acoustic waveguides which direct sound, optical waveguides which direct light, and radio-frequency waveguides which direct electromagnetic waves other than light like radio waves.

How to create a discrete port in CST? Further a discrete face port can be created between two edge chains. A surface will be created between an edge chain and a surface (Pick Face Mode) if one edge chain and one surface is picked. the two selected edges. Pick two edge chains, then add discrete port.

What are the three major ports? Introduction to Major Ports in India On the west coast, there are the ports of Mumbai, Kandla, Mangalore, JNPT, Mormugao, and Cochin. The ones on the east coast are the ports at Chennai, Tuticorin, Visakhapatnam, Paradip, Kolkata, and Ennore.

What are the 3 ports? The port numbers are divided into three ranges: the well-known ports, the registered ports, and the dynamic or private ports.

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### How to design microstrip antenna by using CST?

How is a waveguide used in an antenna? A waveguide antenna is a type of antenna that channels RF energy from an air medium into a waveguide, or vice versa. Once the RF energy has been captured, it is either conducted through waveguide interconnect, or picked up by a coaxial interface to later be transmitted through a coaxial assembly.

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**How do I increase mesh size in CST?** Go to Global Mesh properties. Convergence performance depends on the mesh size. u can change from home page of CST go to Mesh tool then global properties then increase the (Near of model). Steps per wavelength: This value is connected to the wavelength of the highest frequency set for the simulation.

**How do you set boundaries in CST?** You can apply appropriate boundary condition in CST by selecting solve menu then select boundary condition option and apply the boundary condition according to your geometry. It depends on the type of excitation.

#### How to simulate antenna array in cst?

Which antenna is best guided by a waveguide? A Horn antenna is best excited by a waveguide. The signal is fed from and received through a waveguide connected to a horn antenna. The Indian Air Force (IAF) released the AFCAT EKT 1/2023 Short Notification.

When to use a waveguide? Rectangular and circular waveguides are commonly used to connect feeds of parabolic dishes to their electronics, either low-noise receivers or power amplifier/transmitters. Waveguides are used in scientific instruments to measure optical, acoustic and elastic properties of materials and objects.

What is the point of a waveguide? A waveguide is a hollow metallic channel that has either a rectangular or a cylindrical cross-section. The main purpose of a waveguide is to direct electromagnetic wave from a microwave source (e.g., a magnetron) to a microwave applicator (e.g., an oven cavity).

## What is the disadvantage of waveguide?

**Is a coaxial cable a waveguide?** Coaxial cable may be viewed as a type of waveguide. Power is transmitted through the radial electric field and the circumferential magnetic field in the TEM mode. This is the dominant mode from zero frequency (DC) to an upper limit determined by the electrical dimensions of the cable.

What are the advantages of waveguide antenna? What are the advantages of using waveguide assemblies over other transmission lines? Waveguide assemblies offer low loss, high power handling capability, and excellent electromagnetic shielding, making them ideal for high-frequency applications.

#### How to implement a QMS based on ISO 9001:2015?

What are the three major changes under ISO 9001:2015? Some of the key updates in ISO 9001:2015 include: The introduction of new terminology. Restructuring some of the information. An emphasis on risk-based thinking to enhance the application of the process approach.

Can ISO 9001 be used for QMS development? The ISO 9001 standard is one such set of requirements that is accepted worldwide, and which defines and outlines all the typical policies, processes, documented procedures, and records that are needed for a successful QMS, and can be used and tailored for the needs of any organization.

What are the four documentation requirements for QMS that need to maintain according to ISO 9001:2015 standard?

What are the 7 main clauses of ISO 9001:2015?

What are the six documented procedures required to create an ISO 9001 QMS?

What are the four 4 basic components of the ISO 9001 quality management system? When broken down, quality control management can be segmented into four key components to be effective: quality planning, quality control, quality assurance, and quality improvement.

What are the requirements for a QMS?

What are the three pillars of ISO 9001:2015? It should be noted that the 2015 version is based on 3 pillars, which are: Risk Based Thinking, PDCA and the Process Approach.

What is the difference between ISO 9001 and QMS? ISO 9001 represents the set of QMS requirements, whereas a quality management system is a framework that binds all your quality processes together to produce high-quality goods. Aligning these together could be challenging with paper-based systems.

#### How to build a QMS system?

What is the QMS procedure? A Quality Management System (QMS) is a formalized system that documents processes, procedures, and responsibilities for achieving quality policies and objectives. A QMS ensures that products or services are consistently in compliance with customer and regulatory requirements.

What are the six mandatory procedures are required in ISO 9001 2015? Six procedure are- Control of Documents, Control of Records, Internal Audit, Corrective Action, Preventive Action, Control of Non Conforming Products." Six procedure are-Control of Documents, Control of Records, Internal Audit, Corrective Action, Preventive Action, Control of Non Conforming Products.

What is QMS checklist? Assessment Checklist. This checklist serves as an initial guide to help you assess or implement a Quality Management System within your CST WAVEGUIDE TUTORIAL

company. What is a Quality Management System (QMS)? A QMS is a system that serves to formally document processes and procedures within your organization.

What are the 6 documents required by ISO 9001:2015?

What are the ISO 9001:2015 requirements?

What is the mandatory clause for ISO 9001:2015? ISO 9001:2015 standard requires businesses to establish document control of the quality management system to ensure the integrity of data. This will also help bring transparency within the organisation and make sure that everyone has equal access to accurate information regarding quality management systems.

What are the key points of ISO 9001:2015? 7 key quality management principles—customer focus, leadership, engagement of people, process approach, improvement, evidence-based decision making and relationship management.

What are the mandatory requirements of QMS?

How to implement QMS ISO 9001?

**How do I document QMS?** The Quality Manual should include most of the following elements: title and table of contents; scope of the QMS; exclusions from ISO 9001, versioning information, and approval; Quality Policy and objectives; QMS description, the business process model of the organization; definition of responsibilities for all ...

How do I implement a quality management system?

What is ISO 9001:2015 implementation? ISO 9001 standard helps organisations improve their quality processes based on the seven quality management principles. It aims to allow companies to be more efficient, improve processes and reduce costs to offer products and services that consistently meet customer expectations.

What are the QMS principles of ISO 9001 2015? Now let's begin with the 7 principles of ISO 9001, which are Customer Focus, Leadership, Engagement of People, Process Approach, Improvement, Evidence-Based Decision Making, and Relationship Management.

How do you implement quality control standards?

How to make a fitter resume?

What is the best objective for a fitter resume?

What is the experience of a fitter? Fitters carefully build machines or mechanical parts as per specifications. They read blueprints, plans, or 3D models and use tools to assemble the parts. This role requires technical precision. It also call for a deep understanding of mechanical systems.

What is the job description of a mechanical fitter on a resume? Mechanical fitter provides detailed inspection, troubleshooting, oversight, and diagnosis of operational problems in plant and distribution systems including boilers, heat exchangers, chillers, and piping systems including expansion joints, valves, supports, and anchors.

What is a fitter job description? Fitter Job Description: Top Duties and Qualifications. A Fitter, or Pipe Fitter works on a construction site to install industrial pipework in factories and large buildings. Their duties include installing and repairing pipes using welding methods, completing jobs on time and ensuring safety on a job site.

What is a skilled fitter job description? Key Responsibilities: Assemble and install mechanical systems and equipment. Perform maintenance and repair work on mechanical systems and equipment. Read and interpret technical drawings and schematics. Use hand and power tools to cut, shape, and fit materials.

What is a good simple objective for a resume?

What to write in skills in a resume?

What are the objectives of fitter machinist? The principal purpose of fitter/machinist is to ensure that layout, fitting and machining works are well sustained on the ground floor. 5. Read and interpret diagrams, sketches and designs to determine operations, required materials.

What is the highest paid fitter?

What are the technical skills of a fitter? What Are Fitter Skills? Fitter skills can be classified into hard skills and soft skills. Hard skills are the technical knowledge and abilities needed to perform specific tasks, such as welding, machining, or reading blueprints. These skills are usually acquired through formal education or on-the-job training.

What is a fitter structure job description? The Structural Metal Fitter prepares structural metal products for welding and riveting. He/She lays out parts, lines up edges and fits parts together. He/She knows how much to allow for the effects of heat and shrinkage on metal. He/She positions parts by hand or uses cranes and hoists to position them.

What is fitter support job description? Fitter Duties & Responsibilities: Construct and assemble mechanical systems and structural forms according to specifications and requirements. Utilize welding skills to fuse structural components. Inspect structural systems based on local and state building codes. Set up and adjust machines, tools, and equipment.

What is the position description fitter? Summary. Fitters (General) fit and assemble metal parts and subassemblies to fabricate production machines and other equipment.

What is the job description of fitter maintenance? Maintenance Fitters craft, assemble and fit parts to heavy machinery and industrial equipment. They also install, maintain and repair a range of heavy machinery and industrial tools including their mechanical and hydraulic components.

What is a fit technician job description? The difference between the role of a Fit Technician and Pattern Master as perceived by most of them is that while the Pattern Master is primarily responsible for developing patterns and adding margins and allowances, the job of the Fit Technician includes pattern selection, the correct fabric selection, correct seam ...

What is the description of mechanical fitter? what is a mechanical fitter? A mechanical fitter is the engineering specialist responsible for putting together machine parts, installing, maintaining and repairing plants and equipment. Your work

involves assembling parts made from metals or other materials to create production equipment and machinery.

What is a shift fitter job description? Shift fitter means an employee with qualifications of fitter and turner who is engaged unsupervised on shift work and during their shift is required to be in charge of all types of mechanical equipment including ore transportation and crushing systems, tipples and winder conveyances and who shall effect running repairs ...

What is a fitter general job description? Their job involves: identifying worn/faulty mechanical components and equipment. repairing worn/faulty mechanical components and equipment. replacing worn/faulty mechanical components and equipment. conducting modifications.

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What is a fitter helper job description? Some core responsibilities for a Bolt Up Fitter Helper include: Assist with tighten and loosen bolts on flange connections per ISO drawings and work plan. Assist with installation/removal of blinds as needed for pressure testing purposes. Possess skilled knowledge of pipe fittings, bolts, valves, etc.

Quante domande ci sono nel test sulla sicurezza sul lavoro? Il test sicurezza sul lavoro è progettato in modo che chiunque possa accedervi gratuitamente ed in modo anonimo sia da pc che da telefonino. Abbiamo previsto per il test sicurezza sul lavoro circa una ventina di domande con risposta semplice.

Qual è la più importante legge vigente per la sicurezza nel lavoro? La normativa di riferimento in materia di sicurezza sul lavoro è costituita dal D. Lgs. 81/2008 che elenca le misure generali di tutela di sicurezza aziendale, poi integrate dalle misure di sicurezza previste per specifici rischi o settori di attività. Il decreto legge n.

Quali sono i pilastri della sicurezza sul lavoro? In sintesi, i pilastri della sicurezza sul lavoro sono la formazione, l'utilizzo dei DPI, l'adozione di procedure efficaci ed un piano d'emergenza ben strutturato e la prevenzione continua.

Cosa succede se non supero il test sulla sicurezza sul lavoro? I capitoli sono posizionati in modo gerarchico tra di loro. Se non segui in ordine tutte le slide al suo interno il sistema non sbloccherà il passaggio successivo e il lucchetto del capitolo che segue rimarrà di colore arancio. Cosa succede se non passo i test auto valutativi? Assolutamente nulla.

Quanti errori si possono fare al test sicurezza sul lavoro? Potrai svolgere il test di verifica per un massimo di due volte, Attenzione, se per due volte non riuscirai a superarlo, non potrai più farlo e dovrai acquistare nuovamente il corso, alla sessione successiva. Non sarà possibile, infatti, acquistare lo stesso corso con lo stesso periodo di validità.

**Quanto dura il test sulla sicurezza?** Il D. Lgs. 81/2008 prevede l'Aggiornamento Formazione Specifica Lavoratori, da effettuarsi ogni 5 anni, della durata di 6 ore. E' previsto lo svolgimento di test teorici, per valutare le conoscenze acquisite durante il corso; verrà rilasciato un attestato di partecipazione/formazione a chi li supererà con successo.

Quali sono i 3 obblighi fondamentali dei lavoratori? Il lavoratore è tenuto non solo a svolgere l'attività lavorativa per la quale è stato assunto ma ha anche precisi doveri nei confronti del proprio datore di lavoro: dovere di diligenza, il dovere di obbedienza e obbligo di fedeltà e riservatezza.

Chi è il responsabile della sicurezza sul lavoro? IL DATORE DI LAVORO: IL PRIMO RESPONSABILE DELLA SICUREZZA SUL LAVORO IN AZIENDA. IL DIRIGENTE: UN "QUASI" DATORE DI LAVORO. IL PREPOSTO PER LA SICUREZZA: GLI OCCHI E LA MANO DEL DATORE DI LAVORO.

Quali sono le due leggi fondamentali in materia di sicurezza sul lavoro? Le principali normativa di riferimento sono le seguenti: Decreto legislativo 81/08 - TESTO UNICO. Decreto legislativo 106/09 (correttivo del 81/08) Il Decreto Legislativo 151/2015 (ha introdotto alcune modifiche all'aspetto sanzionatorio)

Come si chiama la sicurezza sul lavoro? Il responsabile della sicurezza sul luogo di lavoro è chiamato Responsabile Servizio Prevenzione e Protezione (RSPP). Abbiamo visto come tale ruolo possa essere ricoperto dal datore di lavoro, ma anche da un dipendente, solo dopo adeguata formazione.

Quali sono le tre figure principali della sicurezza in azienda? Altre figure coinvolte sono il Responsabile del servizio di prevenzione e protezione (RSPP), che può essere il datore di lavoro o un consulente esterno, l'Addetto al servizio di prevenzione e protezione (ASPP), come sopra, il Rappresentante dei lavoratori per la sicurezza (RLS), che può essere una risorsa interna o ...

Quali sono le leggi più importanti per i lavoratori? La legge n. 300/70, nota come Statuto dei lavoratori, costituisce un punto di riferimento essenziale in quanto definisce il quadro generale delle tutele.

Qual è l'obbligo più importante del preposto? Il Preposto ha I obbligo di garantire l'attuazione delle direttive ricevute dai suoi superiori, controllandone la corretta esecuzione da parte dei lavoratori.

Quando è obbligatoria la sicurezza sul lavoro? La formazione dei lavoratori in materia di salute e sicurezza è sempre obbligatoria in ogni azienda di qualsiasi settore, in cui sia presente un lavoratore. Essa costituisce una delle principali misure di sicurezza per la prevenzione degli infortuni sul lavoro.

Cosa si intende con il termine il pericolo? pericolo: proprietà o qualità intrinseca di un determinato fattore avente il potenziale di causare danni; rischio: probabilità di raggiungimento del livello potenziale di danno nelle condizioni di impiego o di esposizione ad un determinato fattore o agente oppure alla loro combinazione.

Chi è la figura del preposto? Il preposto è la persona che sovrintende all'attività lavorativa e ne controlla la corretta esecuzione da parte dei lavoratori, garantendo l'attuazione delle direttive ricevute, esercitando un funzionale potere di iniziativa.

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Cosa significa il prodotto R Pxd corso sulla sicurezza? Per "rischio" s'intende la probabilità per cui un pericolo crei un danno e l'entità del danno stesso. Il rischio connesso a un determinato pericolo viene calcolato mediante la formula: R = P x D Quindi il rischio è tanto più grande quanto più è probabile che accada l'incidente e tanto maggiore è l'entità del danno.

Cos'è la sicurezza sul lavoro riassunto? Quando si parla di sicurezza sul lavoro si fa riferimento all'insieme di misure, provvedimenti, valutazioni e monitoraggi che bisogna mettere in atto all'interno dei luoghi di lavoro per tutelare la salute e l'integrità dei lavoratori, proteggendoli dai rischi presenti.

Cosa si intende con la sigla DPI? I dispositivi di protezione individuale (DPI) sono definiti come "qualsiasi attrezzatura destinata a essere indossata e tenuta dal lavoratore allo scopo di proteggerlo contro uno o più rischi suscettibili di minacciarne la sicurezza o la salute durante il lavoro, nonché ogni complemento o accessorio destinato a tale ...

Cosa significa la sigla RLST? RLST Rappresentante dei Lavoratori Territoriale: per rispondere alla domanda "chi è il RLST", si tratta di quella figura che rappresenta i lavoratori per quanto concerne gli aspetti della Salute e Sicurezza sul Lavoro.

Quando è obbligatoria la riunione periodica per la sicurezza? Quando è obbligatoria In base all'articolo 35 del D. Lgs 81, la riunione periodica diventa obbligatoria nelle aziende con più di 15 dipendenti, all'interno delle quali deve essere organizzata con cadenza annuale.

Come funziona il test sulla sicurezza sul lavoro? Test di ingresso: Sono dei questionari dati a inizio del corso, per verificarne il livello di preparazione durante tutto il corso sulla sicurezza sul lavoro. I test prevedono domande sul: Decreto Legislativo 81/2008, e le regole e norme in materia di sicurezza sui luoghi di lavoro.

Quante domande sono al test di Professioni? Come indicato nel Decreto ministeriale che ogni anno viene pubblicato dal MUR per comunicare tutti i dettagli del concorso, il test è composto da 60 domande.

Quante domande ci sono nel test della polizia? max 30 quesiti; ciascun quesito proposto consiste in una domanda con tre alternative di risposta, delle quali solo una CST WAVEGUIDE TUTORIAL

è esatta. Il punteggio sarà attribuito come segue 1 punto (risposta esatta); - 0,27 (risposta errata o multipla); 0 (mancata risposta)

A cosa servono le domande di sicurezza? Le risposte alle domande di sicurezza possono essere configurate solo se hai un Conto Corrente Arancio e ti permettono di: - recuperare il PIN in caso di blocco; - mantenere al sicuro il tuo Token in caso di riattivazione o di attivazione su un nuovo dispositivo.

iso 9001 2015 quality management systems qms transition, fitter resume sample, domande e risposte 2016 sicurezza sul lavoro

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the 80 shunter sthompson volkswagen manual doproprietario fox the study skills guide elitestudentsseries vwvolkswagengolf 19992005service repairmanualthe handbookfor helpingkidswith anxietyand stressfeaturingtips forgrownups whowork withkids 34practicalexperiment 16labmanual citroenberlingopeugeot partnerrepair manuallglcd tvtraining manual42lg702010 secondarysolutions icaewstudy manualreporting stresscheckusermanual mitsubishipajero2007 ownersmanual kumpulanjudul skripsikesehatanmasyarakat k3the hospicecompanionbest practices for interdisciplinary assessment and care of common problems during theresearch designand statisticalanalysishandbuch derrehabilitationspsychologiegerman editioncubawhat everyoneneeds toknow1999 yamahalx150txrxoutboard servicerepair maintenancemanual factoryas nzs51312016 structuralsteelworkfabrication anderection handbookoflaboratory animalbacteriology secondedition 1996 amgeneral hummer engine temperature sensormanua finding homequinn security1cameron daneprocess analysisand simulationhimmelblaubischoff safetyinstrumented systemsdesign analysisandjustification 2ndedition toddlerfarmanimal lessonplans