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EXEMPLE DE TEXTE EXPLICATIF

LE GENIE CIVIL

En abandonnant la vie nomade, l'Homme a commencé à construire des refuges pour se protéger des dangers naturels et des animaux sauvages. Ainsi, la construction est un phénomène social remarquable parce que L'Homme a su construire avant de savoir écrire.

Les premières pratiques de construction (qu'on appelle génie civil) peuvent avoir débuté entre 4000 et 2000 avant Jésus Christ par la réalisation des pyramides en Egypte.

Le Génie civil est défini comme étant une science qui englobe la conception et la construction des immeubles résidentiels, industriels et commerciaux, des installations d'approvisionnement en eau et des systèmes de transport des biens et des personnes.

C'est l'ensemble des activités conduisant à la réalisation des ouvrages liés au sol. Ces activités concernent les bâtiments et les travaux publics et elles utilisent des matériaux spécifiques qui sont naturels ou artificiels (terre, pierre et béton).

1- Les bâtiments :

Les bâtiments sont des ensembles limités et clos. Ils ont pour fonction essentielle de protéger le milieu intérieur et de corriger les agressions du milieu extérieur

Le rôle d'un bâtiment est d'abriter les individus pour une utilisation déterminée : pour l'habitation (exemple : villas, immeubles, ...), pour l'industrie (usines, entrepôts, ...) ou pour le commerce (magasins, ...)

Les bâtiments sont constitués de gros œuvre et de second œuvre :

1.1-Le gros œuvre représente les parties du bâtiment qui permettent de le mettre hors de l'eau et qui sont : les fondations, la structure (poteau, poutre, mur de refend, murs de façade, planchers...), la charpente et la couverture. La structure porteuse assure la stabilité du bâtiment. Elle se compose des fondations, du dallage, des planchers

1.2-Le second œuvre qui contribue à rendre fonctionnel le bâtiment. C'est la menuiserie extérieure et intérieure, l'installation électrique, l'installation sanitaire, le chauffage, le plâtre, la peinture, le carrelage, etc...

2. Les Travaux Publics :

Les travaux publics sont constitués d'une grande variété de travaux de construction : infrastructures de transport (routes, ports, chemins de fer, aéroports, etc.), hydrauliques (barrages, stations d'épuration), urbaines (éclairage des rues, parcs).

Les Travaux Publics peuvent être séparés en deux grandes catégories :

2.1. Les voies de communication où sont classées les routes, les voies ferrées et les voies de navigations fluviales.

2.2. Les ouvrages d'arts qui sont des constructions complexes, se divisent en :

2.2.1. Ouvrages d'art liés aux voies de communication : ponts par exemple,

2.2.2. Ouvrages liés à l'eau : barrages, réservoirs, châteaux d'eau par exemple,

2.2.3. Ouvrages spéciaux : ports, aéroports, centrales thermiques ou nucléaires, par exemple.

3. Les matériaux utilisés pour le génie civil :

Le génie-civil utilise beaucoup de matériaux dont les principaux sont :

3.1. Les matériaux naturels ou traditionnels : la pierre la terre et le bois sont utilisés depuis très longtemps dans les constructions.

3.2. Le béton : l'invention du ciment artificiel a permis l'utilisation massive de ce matériau. C'est un mélange de ciment, d'eau, de sable et de gravier. Il est employé sous plusieurs formes: brut (parpaings, mortiers), béton armé (des barres d'acier contribuent à le rendre résistant).

Bref, depuis l'antiquité, l'Homme a développé le génie civil pour ses besoins d'habitat, de communication, d'alimentation en eau etc... et a diversifié les matériaux utilisés qui ont évolué de la terre au béton.

Le génie de l'Homme ne cesse d'évoluer dans la construction selon ses besoins tout en tenant compte de l'environnement, de l'économie et de l'espace. C'est ainsi que nous voyons apparaître des types d'ouvrages inédits dans tous les domaines.

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Guillaume Favre



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