

BRENTWOOD
OPEN LEARNING COLLEGE

Assignment Cover Sheet

Student Name:	Peter W Shale
Student Number:	8942
Course:	Diploma Construction Management
Assignment NO:	01

Marking Criteria:

We expect the learners to write minimum one well expressed point in three lines against each allocated mark. This means one needs to write 15 lines with 5 well expressed points to get high grades for a 5 marks question.

For high grades use examples and illustrations where appropriate.

- a) What Makes the construction industry different from other industries?

The construction industry is far riskier and at the same time rewards are far greater than other lines of business. It is considered as a tertiary industry different from manufacturing and extraction. The construction industry requires the use of its share of professionals as well; including civil engineers, architects, draughtsmen, overseers etc. While other industries require a number of fixed assets like land, building, industrial machinery etc a construction business can theoretically run even without the need of an office. Depending on the project the required personnel and machinery can be hired, the site can be bought using borrowed capital and units can be sold off through bookings, periodic work completion contracts etc.

- b) The Accident rate in the construction industry is four times higher than that in other industry. Why?

Nearly 6.5 million people work at approximately 252,000 construction sites across the nation on any given day. The fatal injury rate for the construction industry is higher than the national average in this category for all industries.

- c) Outline the main duties and responsibilities of the construction supervisor

Accomplishes construction human resource objectives by selecting, orienting, training, assigning, scheduling, coaching, counselling, and disciplining employees; communicating job expectations; planning, monitoring, appraising job contributions; recommending compensation actions; adhering to policies and procedures.

Manages sub-contractors by locating, evaluating, and selecting sub-contractors; monitoring and controlling performance.

Meets operational standards by contributing construction information to strategic plans and reviews; implementing production, productivity, quality, and customer-

service standards; resolving problems; identifying construction management system improvements.

Meets construction budget by monitoring project expenditures; identifying variances; implementing corrective actions; providing non-project annual operating and capital budget information.

Accomplishes construction project results by defining project purpose and scope; calculating resources required; establishing standards and protocols; allocating resources; scheduling and coordinating staff and sub-contractors; evaluating milestone assumptions and conclusions; resolving design problems; evaluating and implementing change orders.

Approves construction projects by conducting inspections at critical phases; obtaining approvals from buyers.

Prevents fines and interruptions by complying with, and enforcing, codes.

Maintains safe, secure, and healthy work environment by following and enforcing standards and procedures; complying with legal regulations.

Updates job knowledge by tracking and understanding emerging construction practices and standards; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.

Enhances organization reputation by accepting ownership for accomplishing new and different requests; exploring opportunities to add value to job accomplishments.

1) Discuss some important features of the construction industry

Characteristics of construction industry can divide by its features of output, its size, government as a main client, nature of demand for construction output, nature of construction work, variety of construction technology, and structure of industry. Feature of construction output are durable or long lasting output such as house, building, road, etc large and heavy units, unique, immobile, complex process, and expensive. Construction industry is capital goods industry. It also requires other industries to support them and contributes gross domestic product of the country. Many workers are required by construction industry. The main client of construction industry is a government regarding to their policy in infrastructure development. Demand of construction is in various types and sizes. There will be different locations, different resources, different inputs and different stages of their process. There are discontinuities and uncertainties in demand pattern.

Construction industry needs a lot of worker with many levels such as skilled labour or unskilled labour. People imagine construction industry as dirty job as well as dangerous jobs. Even some said the construction industry is unattractive job, but i would say this is the attractive job and lot of money especially in off shore construction industry such as drilling, piping, and dredging. The development of construction industry grows rapidly as well as triangle connection between cost, quality, and time to improve benefits. There are a lot of firm in small scale to big scale in construction industry and it is ease to enter in construction industry. Just supply cement to the building construction, it can say that we just enter construction industry.

2) How has the growth in technology affected the construction industry?

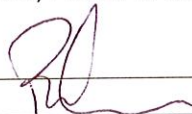
Most construction industry professionals acknowledge that increased adoption of technology is in their future. Yet many still resist committing their time or money, and others invest sporadically, hoping to see results by using tech for tech's sake.

Improved project outcomes can only occur through understanding the most significant of the individual applications and devices that are currently available, and realizing how those technologies are already synergistically working together and giving rise to emergent processes. These processes will likely supplant many of the standalone systems that now dominate the tech landscape and will represent the new normal for project execution in the not-so-distant future. While technology can improve the design and construction process, implementation of technology must be part of a broader strategic platform.

Many of today's most popular software, technologies and devices have proven themselves thoroughly on large-scale building and infrastructure projects. According to the World Economic Forum, "Wherever the new technologies have properly permeated this fragmented industry, the outlook is an almost 20 percent reduction in total life cycle costs of a project, as well as substantial improvements in completion time, quality and safety."

Student Statement:

By submitting this assignment, I confirm that this is my own work.

Student Signature		Date	12-08-17
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For Tutor / Assessor Use Only

Total Marks	
Marks Obtained	
Percentage / Grade	