

# 營建工程概論 - 營建系 vs 土木系

## 1. 本質

### The Difference Between Civil Engineering & Construction Engineering

Civil engineering and construction engineering are similar to the degree that both deal with the construction industry. Civil engineering deals more with the design, planning and analysis of a construction project, while construction engineering is primarily on-site management of actual construction.

<https://careertrend.com/info-8426878-difference-civil-engineering-construction-engineering.html>

## 2. 課程

### 營建工程

教學 比較著重於 工程實務、施工、管理 (比較實務應用)

### 土木工程

教學 比較著重於 工程理論，例如工數、力學、結構、流體力學 ... (比較理論)

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### 未來課程方向

朝向 務實/實務的《建築工程》修正；

如此未來可以與土木系明確區隔，也容易與建築系合作。(本校將成立建築系)

### 願景：希望本系的學生

(1)一畢業，馬上可以成為營建/建築工地 極需要的工程師。

(2)未來，很快的，可以成為支援建築師與土木技師的高階工程師/工地主任/專案經理。

## 3. 薪水

### Construction worker salary in US

<https://www.careerexplorer.com/careers/construction-worker/salary/>

Construction workers earn an average yearly salary of **\$34,041**.

Wages typically start from **\$22,307** and go up to **\$51,947**.

### Construction managers

Workers in this sector who handle the **logistics** of a project also make more:

**Cost estimators** brought home an average of **\$64,340** in 2014

and **Construction managers** earned an average of **\$94,590**."

<https://www.careerexplorer.com/careers/construction-manager/>

## 4. Youtube

### (1) Construction Management (video, time length, 5:43 )

<https://www.youtube.com/watch?v=jNgsSdRqsh0>

### (2) A Day in the Life: Construction Project Management (2009 video, time length, 6:05 )

<https://www.youtube.com/watch?v=5vStHoQJSvc>

## 5. 需要的修練與專業

### (1) 專案管理

- 越來越多人想做專案管理這一行！

<https://www.projectup.net/article/view/id/16531>

- 十分鐘活用專案管理 15 – 專案管理懶人包

<https://funevo.com/2018/12/28/pmp-project-management-summary/>

### (2) 系統思考

- 第五項修練：學習型組織的藝術與實務

<https://www.books.com.tw/products/0010832070?sloc=main>

- 系統思考：克服盲點、面對複雜性、見樹又見林的整體思考

<https://www.books.com.tw/products/0010702990>

## 6. 苗栗北橫爭公共工程金質獎 女力功不可沒 <https://bit.ly/2W3Yhxf>