

# LECTURE 3

## \* STRUCTURAL ENGINEERING \*

**STRUCTURAL ENGINEERING** - A SPECIALITY WITHIN THE FIELD OF CIVIL ENGINEERING - FOCUSES ON THE FRAMEWORK OF STRUCTURES AND ON DESIGNING THOSE STRUCTURES TO WITHSTAND THE STRESSES AND PRESSURES OF THEIR ENVIRONMENT AND REMAIN SAFE, STABLE AND SECURE THROUGHOUT THEIR USE.

### **WHAT DOES A STRUCTURAL ENGINEER DO?**

THEY CREATE DRAWINGS AND SPECIFICATIONS PERFORM CALCULATIONS, REVIEW THE WORK OF OTHER ENGINEERS, WRITE REPORTS AND EVALUATIONS, AND OBSERVE CONSTRUCTION SITES.

### **DIFFERENT COLORS OF HARD HAT**

WHITE - ENGINEERS, MANAGERS, SUPERVISORS & FOREMEN

BLUE - ELECTRICIANS, CARPENTERS, & OTHER OPERATORS

RED - FIRE FIGHTERS

GREEN - SAFETY OFFICERS & CAN BE ALSO BE USED BY NEW WORKERS

ORANGE - SAFETY INSPECTOR, BUT OCCASIONALLY USED FOR NEW WORKERS

GRAY - SITE VISITORS

YELLOW - LABOURERS & EARTH MOVING OPERATORS

# Lecture Notes In Structural Engineering

**Ali Saleh**



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