



**WE MAKE CIVIL ENGINEERS INDUSTRY
READY**

AGENDA

- Construction Sector
- Summer Trainings
- Reasons for low employability
- Stick to core
- What do we have for Civil Engineers?
- What you will get?
- Who are we?



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CONSTRUCTION SECTOR

CONSTRUCTION SECTOR

An overview based on report published by National Skill Development Corporation and McKinsey global

- Contributes **8%** to India's GDP
- Share of Infrastructure development is **> 50%**
- Mega Projects in Roads, Railways, Airports and Shipping are already planned
- Sales of Construction equipment **doubled** in last 5 Years
- **80 million skilled workforce** requirement by year 2022 and **50 million skilled workforce** requirement in next 10 years

CONSTRUCTION SECTOR

But the report also mentions.....

97% of the workforce shall be working without any formal training & there is a huge gap in demand and supply of skilled professionals

कंस्ट्रक्शन सेक्टर...

अगले 10 वर्षों में 5 करोड़ नौकरियां

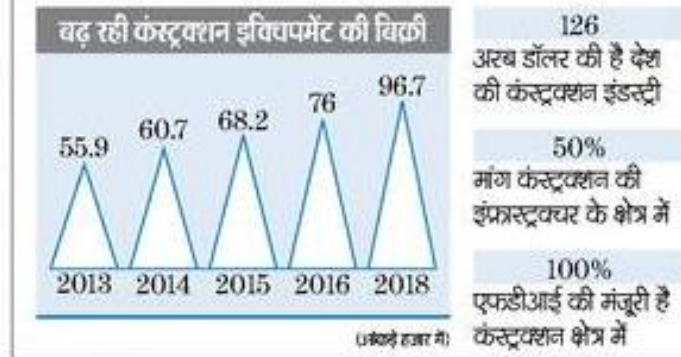
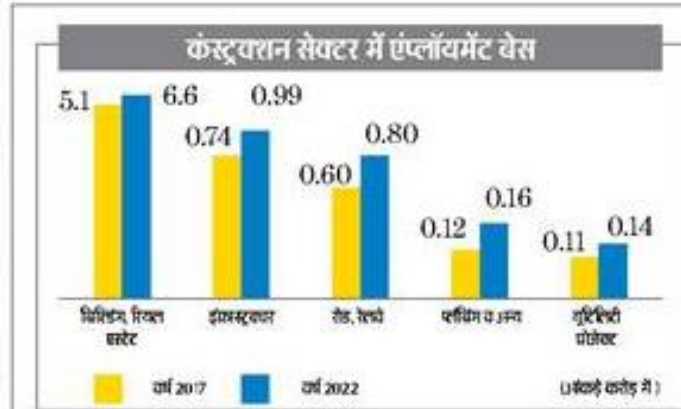
नेशनल स्किल डेवलपमेंट कॉर्पोरेशन की रिपोर्ट के अनुसार देश में विभिन्न कंस्ट्रक्शन परियोजनाओं और रियल एस्टेट के क्षेत्र में 2022 के अंत तक लगभग 8 करोड़ लोग काम कर रहे होंगे।

हालांकि इसके बावजूद इसमें स्किल्ड प्रोफेशनल की कमी है। ऐसे में इस क्षेत्र के विस्तार से स्किल्ड युवाओं के लिए रोजगार के नए अवसर बनने की संभावना है।

हाल ही में मैकेजी ग्लोबल इंस्टीट्यूट द्वारा जारी एक रिपोर्ट के अनुसार देश के कंस्ट्रक्शन सेक्टर में अगले 10 वर्षों में करीब 5 करोड़ लोगों को प्रत्यक्ष और अप्रत्यक्ष रूप से रोजगार मिलेगा। हालांकि इस क्षेत्र में स्किल्ड वर्कर की भारी कमी होगी। नेशनल स्किल डेवलपमेंट कॉर्पोरेशन की रिपोर्ट के अनुसार कंस्ट्रक्शन और रियल एस्टेट सेक्टर में 2022 तक कुल 7.9 करोड़ लोग काम कर रहे होंगे। नेशनल सैपल सर्वे ऑफिस के अनुसार इसमें से 97 फीसदी लोगों ने काम करने से पहले किसी भी तरह की ट्रेनिंग नहीं ली होगी।

एक रिपोर्ट के अनुसार कंस्ट्रक्शन सेक्टर की देश की जीडीपी में 8 फीसदी की हिस्सेदारी है। सर्विस सेक्टर के बाद सबसे ज्यादा प्रत्यक्ष विदेशी निवेश कंस्ट्रक्शन सेक्टर में होता है। देश में कंस्ट्रक्शन सेक्टर की 50 फीसदी से ज्यादा की मांग इंफ्रास्ट्रक्चर के क्षेत्र में होती है। इसके अलावा बाकी इंडस्ट्रियल एक्टिविटी, रिसिडेंशियल और कमर्शियल डेवलपमेंट आदि के क्षेत्र में होती है। अगले कुछ वर्षों में सड़क निर्माण के 6.5 ट्रिलियन रुपए के 432 प्रोजेक्ट को मंजूरी मिली है। इसी प्रकार 6 ट्रिलियन रुपए के 400 रेलवे प्रोजेक्ट, 670 अरब रुपए के एयरपोर्ट डेवलपमेंट प्रोजेक्ट और 551 अरब रुपए के 75 बंदरगाहों की निर्माण परियोजनाओं को मंजूरी मिली है। इंफ्रास्ट्रक्चर के विस्तार से कंस्ट्रक्शन क्षेत्र में निर्यात भविष्य में विकास की संभावनाएं हैं। ऐसे में रिस्किल इंजीनियरिंग के छात्रों के लिए यह एक अच्छा विकल्प हो सकता है।

रिस्किल इंजीनियरिंग को देश की सबसे पुरानी इंजीनियरिंग स्ट्रीम में से एक माना जाता है। इसमें स्ट्रक्चरल काम की प्लानिंग, डिजाइनिंग और क्रियान्वयन शामिल है। रिस्किल इंजीनियर



126 अरब डॉलर की है देश की कंस्ट्रक्शन इंडस्ट्री

50% मांग कंस्ट्रक्शन की इंफ्रास्ट्रक्चर के क्षेत्र में

100% एफडीआई की मंजूरी है कंस्ट्रक्शन क्षेत्र में

पब्लिक वर्क जैसे कि सड़क, सुरंग, बिल्डिंग, एयरपोर्ट, बांध और बंदरगाहों में कंस्ट्रक्शन गतिविधियों का मुआयना करते हैं और इसके डिजाइन तैयार करते हैं। रिस्किल इंजीनियर को सिर्फ इंजीनियरिंग स्किल की ही नहीं, बल्कि

सुपरवाइजरी और एडमिनिस्ट्रेटिव स्किल की भी जरूरत होती है। रिस्किल इंजीनियरिंग में काम के दौरान प्लानिंग में जगह का मुआयना करना और बांध बनाने में संभावित समस्याओं का हल ढूंढना शामिल होता है।

एलिजबिलिटी

फिजिक्स, केमिस्ट्री और मैथ्स विषयों के साथ 12वीं की परीक्षा पास करने वाले छात्र रिस्किल इंजीनियरिंग के केयरर डिप्लोमा कोर्स में प्रवेश ले सकते हैं। 12वीं में ब्यूलरम 50 फीसदी अंक जरूरी है। इसके बाद छात्र जेईई मेव के माध्यम से देश के विभिन्न इंजीनियरिंग कॉलेजों में रिस्किल इंजीनियरिंग के केयरर ऑफ टेक्नोलॉजी या केयरर ऑफ इंजीनियरिंग कोर्स में प्रवेश ले सकते हैं। पीजी कोर्स में प्रवेश के लिए अधिकतर संस्थानों में ग्रेट स्कोर और केयरर डिप्लोमा में 60 फीसदी अंक जरूरी है। कुछ संस्थान खुद का एंट्रेंस टेस्ट भी आयोजित करते हैं।

जॉब प्रॉस्पेक्ट

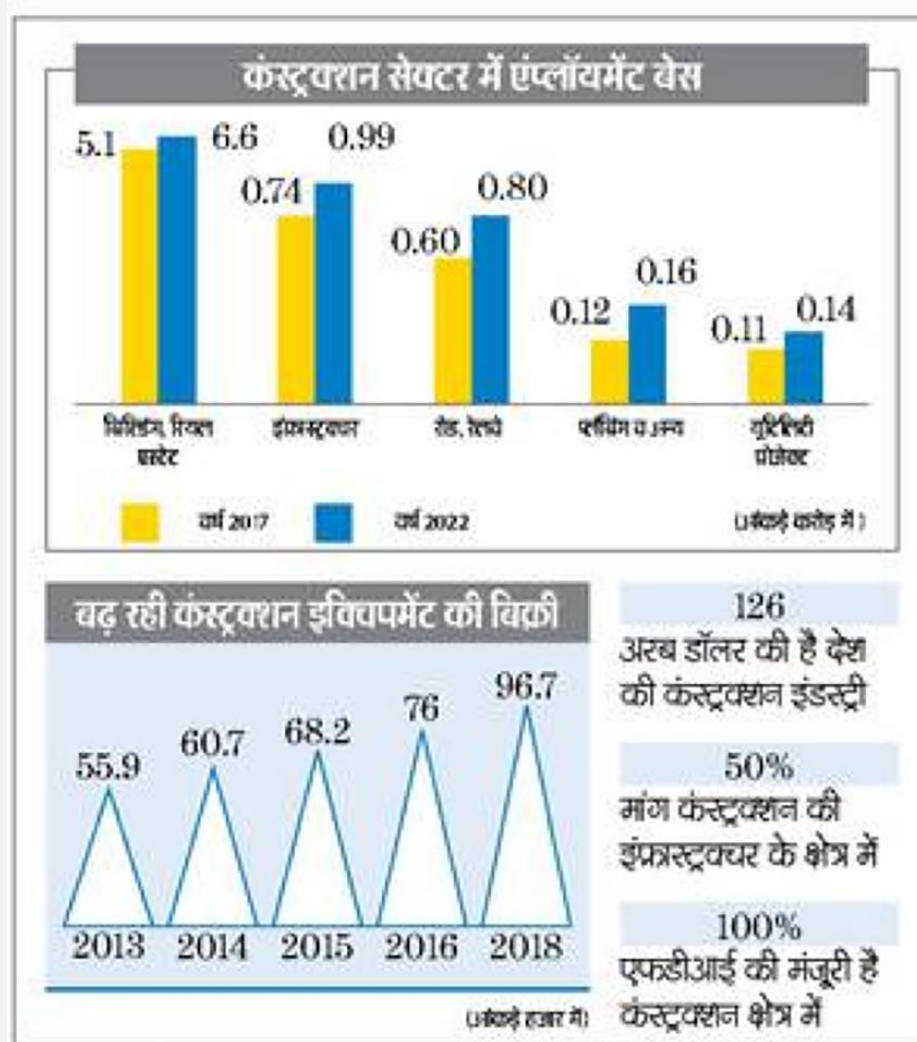
रिस्किल इंजीनियरिंग करने वाले छात्र प्रइवेट और पब्लिक सेक्टर कंपनियों और शिक्षण संस्थानों में जॉब कर सकते हैं। इन्फ्रास्ट्रक्चर को राज्य या केंद्र सरकार द्वारा चलाए जा रहे रेलवे प्रोजेक्ट, प्रइवेट कंस्ट्रक्शन कंपनियों, रिस्किल इंजीनियरिंग सर्विसिस व कंसल्टेंसी सर्विस आदि में जॉब के अवसर मौजूद हैं। रिसर्च कोर्स कर चुके छात्र शिक्षण संस्थानों में भी जॉब कर सकते हैं।

कमाई

इस क्षेत्र में केसर को 12 से 18 हजार रुपए प्रति माह का स्टुडेंटशिप पैकेज मिल सकता है। 2 से 3 वर्ष के अनुभव के बाद यह पैकेज 20 से 25 हजार रुपए प्रति माह तक हो सकता है। 5 वर्ष से ज्यादा अनुभव के बाद प्रोफेशनल को 50 से 60 हजार रुपए तक का मासिक पैकेज मिलने की संभावना होती है। शिक्षण के क्षेत्र में स्टुडेंटशिप मासिक पैकेज 25 से 30 हजार रुपए हो सकता है।

An article published in Dainik Bhasker dated 30 Jan 2017

5 CRORE JOBS IN NEXT 10 YEARS



CONSTRUCTION SECTOR TO CREATE MAXIMUM JOBS BY 2022

National Skills Development Corporation

India is estimated to need around **76.5 million workers** in the building, construction and real estate sector by 2022, with affordable housing predicted to be the key job creator.

"There is a huge need that the industry has to cater to. We need manpower, proficient with excellent skills on technical abilities. The industry and the government need to pay a special focus on this segment of workforce," said **Mr. Dilip Chenoy**, Managing Director & CEO of NSDC.

CONSTRUCTION SECTOR LIKELY TO CREATE 7.5 CRORE JOBS BY 2022

KPMG

The real estate & construction sector is expected to generate **75 million (7.5 crore)** jobs by 2022 and emerge as the largest employer in the country,

"Real estate & construction sector in India is expected to be the third largest globally by 2030 contributing over 15% to the GDP and emerge as the largest employer in India providing employment opportunities to over 75 million people. The size of the construction market is expected to be more than \$1 trillion (nearly Rs 66.5 lakh crore) by 2030."



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SUMMER TRAININGS

SUMMER TRAININGS

Current Scenario - Feedback by Engineering Students

- “Companies do not pay any attention to trainees”
- “Training is just a formality and mere certificate is required for CV”
- “I wish to pursue MBA after completing engineering, so why waste time”
- “I wish to prepare for Government. Services, trainings waste time.”
- “I may have a better career by doing some IT Course”
- “I am confused if Civil Engineering in my final career choice”
- “I need a break and I am planning a biking trip to Laddakh for some thrill”
- “Sir, it is just a formality, I will submit the training report”
- “Sir, Civil Engineering is my career choice, I wish to learn but need guidance as to where I should train.”

SUMMER TRAININGS

Current Scenario - Feedback by Industry

- “Can actually do very little in an industry unless they are trained & groomed, resulting in the company investing a great deal on them. Not every company has the time, or resources and that’s an expense not every employer wants to bear.”
- “Very rarely do we see students taking up civil engineering trainings seriously in companies during their education term.”



REASONS FOR LOW EMPLOYABILITY

MAJOR REASONS FOR LOW EMPLOYABILITY

- Curriculum lags behind current Industry trends
- Practical application to theory not clear
- Industry exposure is limited
- Confusion with Career Choices
- Non existence of dedicated training institutes



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STICK TO CORE

CURRENT SCENARIO

60% of ENGG. Graduates leave their core field only to realize after a few years their mistake

- Take a job in other field that is convenient and available
- In promotions and new avenues, degree holders from field given preference
- Growth of graduates from other branches stops/slows
- Frustration and realisation that time has been wasted

CASE STUDY

Story of a Civil Engineer who chose IT as an alternate career

*“I would like to share my experience of going with lucrative market trends and not sticking to my core field. We all are taken by trends in industry and what everybody is doing. I too graduated at a time when world was all about IT, people from every profession were there due to good paying and easily available jobs and it looked sky is the limit. Yes, initially, I felt I have made it to the top, very true **‘I was at top and would stay there!!’** After working for a couple of years I realized that since my core branch was Civil, I was not considered for better positions, which needed clarity of basics of the field. My growth had stopped in IT and pretty much staying where it began.*

For this IT job, I had given up a very good position in Civil in SAIL, which was offered to me. I just wanted to get into IT, no logic was behind it, just I liked the idea of being there and my friends were there too.. And today I find myself struggling for promotions which would have normally come to me, had I started my career with some forethought. I am sharing this to tell graduates to think clearly their career goals and then make a choice.”



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**WHAT DO WE HAVE FOR CIVIL
ENGINEERS?**

WHO ARE WE?



Coaching
Institutes
JEE Academy
FIIT/JEE

Civil
Engineering



Skyllin

Industry



SKYLLIN TRAININGS

RECOMMENDED FOR 2ND/3RD YR STUDENTS

Content	Onsite	Classroom
Industry Orientation		✓
Tech Basics	✓	✓
Engineering Drawings	✓	✓
Layout Preparation	✓	
Quality Control	✓	✓
Project Estimation		✓
Survey (Autolevel)	✓	
Construction Materials		✓
Project Preparation & Submission	✓	✓

SKYLLIN TRAININGS

RECOMMENDED FOR COLLEGE PASS OUTS		
Content	Onsite	Classroom
Industry Orientation		✓
Practo Basics	✓	✓
Architectural/Engineering Drawings	✓	✓
Layout Preparation	✓	
Quality Control & Assurance	✓	✓
Project Estimation & Costing		✓
Measurements & Billing	✓	
Construction Materials		✓
Project Safety	✓	✓

WHO CAN BENEFIT FROM THIS TRAINING?

- A good learner
- Not distracted by others
- Patient
- Perseverance
- Sense of self-worth



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WHAT YOU WILL GET

LEARNINGS

- Onsite trainings
- Practical exposure to building materials
- Practical training on site workflow
- Practical understanding of different processes at site
- Handling of engineering equipments
- Handling of day to day site paperwork and reports
- Guest lectures by renowned industry experts



CERTIFICATE



CERTIFICATE OF TRAINING

is hereby granted to

<Candidate Name>

to certify that he/she has successfully
completed <#> months training at

<Project Location>

from <Date> to <Date>.



<Name>
Director

PMC Buildskills Private Limited
CIN: U74140RJ2014PTC045808

Lower Ground, 131, Mangal Vihar, Gopalpura bypass, Jaipur - 302020 (Raj) India

**Sample
Indicative
Certificate**



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WHO ARE WE?

MANISH GARG

Manish graduated from MBM, Jodhpur, with Bachelors degree in Civil Engineering and an MBA in “International Management” from IMI (New Delhi). Manish has 16 Years of Multi dimension experience in Infrastructure, Real Estate, Cement and Banking. During these years he has served in Punj Lloyd, ICICI Bank, Emaar MGF Land Limited and Wonder Cements in various capacities. Since 2015, Manish runs his own Construction and Consulting firm at Jaipur where he advises on Project Management and construction related aspects to various stakeholders.



ASHISH GUPTA

Ashish graduated from MBM, Jodhpur, with Bachelors degree in Civil Engineering. Ashish opted for entrepreneurship since beginning and successfully running his consulting firm from last 16 years. He has an experience in Project Design, Structural Design, Project Management, Civil Softwares and Execution of Various Infra and Building Projects. Ashish has keen interest in structural design and advises prestigious private and Government led projects.



SOMALI TRIVEDI

Somali is co-founder of IntegralDMS and currently heads Operations. She brings in fifteen years of rich industry experience with expertise in workflow solutions. Her industry past includes financial process transition, working at overseas client site and managing large scale authoring projects. She has a strong ability to improvise and re-engineer the processes and focus on continuous improvements, thus providing effective and flawless client services. Being a founder member she has been a part of strategic planning and growth of the company and believes in its future vision. She enjoys her work and when not in office, she is found practicing yoga and cooking food, naturopathic way.



MANOJ PIPERSANIA

Manoj is a Mining engineering graduate from MBM Jodhpur and runs a software consulting firm “SoftServ”. He is an expert in solution structuring, offshore software delivery and engagement management and holds over fourteen years of client consulting experience in various capacities requiring account management, client partnering, project management, business analysis and technical expertise.

A seasoned consultant with systems integration experience across a broad spectrum of industries. Manoj has addressed complex IT and management situations for clients in USA, Canada, Australia and India.





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