



The Nigerian Institution of Civil Engineers

(A Division of The Nigerian Society of Engineers)



2021 CONTINUOUS PROFESSIONAL DEVELOPMENT (CPD) WORKSHOPS

SN	WORKSHOP TOPIC	DATE
1.	Reading, Interpretation & Understanding of Engineering Drawings and Bills Preparation & Pricing	1-3 June
2.	Materials and Techniques for Road Construction in Poor Soils	6-8 July
3.	Effective Management of Risks, Claims, Variations and Disputes in Construction Contracts	3-5 Aug.
4.	Practical Understanding of Specifications for Roads and Bridges	7-9 Dec.

Workshop Venue: The Nigerian Society of Engineers HQ, Abuja

ALL WORKSHOPS EARN CPD UNITS FOR ENGINEERS

Workshops in collaboration with:



1. READING, INTERPRETATION AND UNDERSTANDING OF ENGINEERING DRAWINGS AND BILLS PREPARATION & PRICING

Date: Tue 1st - 3rd June, 2021

ABOUT THE WORKSHOP

Being able to read and correctly interpret an engineering drawing is essential for most roles in the industry today. This workshop is organised to make sure that participants understand how to read, interpret and work with engineering drawings in a day to day setting and also how to prepare engineering bills and pricing.

LECTURE TOPICS

1. Overview of Reading, Interpretation and understanding of Engineering Drawings.
2. Reading and Understanding of Structural and Civil Engineering Drawings
3. Reading and Understanding Drawings of Building Services
4. Measurement of Road works from Taking-Off to Billing in Practice
5. Measurement of Bridge works from Taking-Off to Billing in Practice
6. Building Up the unit Rates for all Items of works in Engineering project
7. Plants and Equipment Selection, Productivities and Hourly Rates Analysis.
8. Principles and Arrangement of Bills for Engineering Project
9. Software Application in measurement and Pricing of BEME for Engineering Project.

LEARNING OBJECTIVES

At the end of the workshop, participants will be able to read and interpret engineering drawings accurately, and prepare engineering bills and pricing effectively.

WHO SHOULD ATTEND?

This workshop is aimed at those who want to update their knowledge, those who have little or no previous experience of working with engineering drawings and who are required to read, understand and interpret them as part of their manufacturing role in the following industry backgrounds:

- Civil, Mechanical and Electrical Engineers
- Architectural
- Non-Engineers in Consulting and Construction Organizations.
- Government Ministries, Parastatals, Agencies and Local Government

The workshop can serve as Introductory for Young Engineers/Non-Engineers and as a Refresher for Experienced professionals in the Industry and Academics.

2. MATERIALS AND TECHNIQUES FOR ROAD CONSTRUCTION IN POOR SOILS

Date: Tue 6th - 8th July, 2021

ABOUT THE WORKSHOP

Soils formation are generally classified as poor for several reasons. These include soils at water logged sites, excessively clayey or silty soils, and also soils at old dump sites. This highly focused and practically packaged workshop will discuss the various methods, techniques and materials that are suitable for usage for road construction in poor soils. The techniques will include the use of internationally tested proprietary materials and the different forms Improvement Methods.

LECTURE TOPICS

1. Essential Specifications Required for Materials in Road Construction in Poor Soils
2. Specification Requirement for Road Construction in Poor Soils.
3. Site Investigation for Road Construction in Poor Soils and How to use the Results
4. Soil Quality Improvement Materials and their Applications
5. Proprietary Materials for Road Construction in Poor Soils
6. Quality Control Procedures in Road Construction in Poor Soils
7. Cost Reduction Strategies for Road Construction in Poor Soils
8. Field Supervision of Road Construction in Poor Soils
9. Construction Techniques and Choice of Equipment for Road Construction in Water Logged Environment.

LEARNING OBJECTIVES

At the end of the workshop, participants will be to differentiate the kind of tests to be conducted on materials and on the road during and after construction. Know the essential specifications for materials and road construction in poor soils, have in-depth knowledge of different materials used for soil quality improvement, how to apply them and know the right equipment to be used at the site and many more.

WHO SHOULD ATTEND?

This workshop will mostly benefit all categories of Engineers, Quantity Surveyors, Land Surveyors, Builders, Architects, Planners. Contractors, Consultants, Researchers, Laboratory Owners and Materials Suppliers. All Stakeholders working in most especially Niger Delta Areas and other environments with Poor Soils will equally benefit from the workshop.

3. EFFECTIVE MANAGEMENT OF RISKS, CLAIMS, VARIATIONS AND DISPUTES IN CONSTRUCTION CONTRACTS

Date: Tue 3rd - 5th August, 2021

ABOUT THE WORKSHOP

This workshop will deal with the proper management of Risks, Claims, Variations and Disputes in comprehensive and robust manner. This workshop will first introduce the measures to be put in place to minimize the menace and then discusses proactive and effective methods of handling, managing and settling the problems.

LECTURE TOPICS

1. Identifying and Managing Risks in Construction Contracts
2. Factors giving Rise to Risks, Claims, Variations and Disputes in Construction Contracts
3. Strategies for Preventing Claims, Variations and Disputes in Construction Contracts
4. Disputes settlement by Negotiation, Mediation, Arbitration and Litigation and their Merits and Demerits
5. Sources of Claims, Variations and Disputes in Road Project and Avoidance Practices
6. Sources of Claims, Variations and Disputes in Building Projects and Avoidance Practices
7. Methods of Claims Analysis and Presentation in Construction Contracts
8. Sources of Claims, Variations and Disputes in Water and Waste Water Projects
9. Sources of Claims, Variations and Disputes in Dam and Irrigation Projects and Possible Solutions.

LEARNING OBJECTIVES

- The objectives of the workshop are to expose the participants to the fact that there is no project totally free of Risks, Claims, Variations and Disputes.
- Adequate exposure to the procedures for handling and managing the menace proactively shall be our paramount concern in the workshop. Tactics and Strategies to be used for Prevention, resolving and managing Disputes when eventually happens at Sites shall be learnt in the workshop.

WHO SHOULD ATTEND?

This Workshop is of wide benefit to all stakeholders in Engineering Contracts. These include Engineers, Architects, Builders, Quantity Surveyors, Lawyers, Planners and any other professionals in charge of Supervision, Construction and Maintenance of works. The Workshop will also add much value to the functions of Procurement Managers, Contract Analysts, Purchasing /Supply Managers interested in Contracts Management.

4. PRACTICAL UNDERSTANDING OF SPECIFICATIONS FOR ROADS AND BRIDGES

Date: Tue 7th - 9th December, 2021

ABOUT THE WORKSHOP

This workshop is designed to summarize the very voluminous of the general specifications for Roads and Bridges edited by Federal Ministry of Works and Housing to a very handy document that still contain the essential requirements in the General Specifications. The workshop facilitators will go through the entire general specifications clause by clause to simplify the various provisions for a thorough understanding by the participants.

LECTURE TOPICS

1. Overview of Specifications for Road and Bridge Projects
2. The use of Effective Specifications for Road
3. General Administration and Preliminaries.
4. The use of Effective Specifications for Concrete Works
5. The use of Effective Specifications for Bridge Works
6. The use of Effective Specifications for Earthworks
7. The use of Effective Specifications for Sub-base and Base Courses
8. The use of Effective Specifications for Bituminous Surface Dressing
9. The use of Effective Specifications for Asphaltic Concrete Surface
10. Specifications for Miscellaneous Road Items
11. Comparison of Federal Ministry of Works and AASHTO Specifications on Key Items
12. Problems in Implementing Road Construction Specifications in Nigeria.

LEARNING OBJECTIVE

The objectives of the workshop are to expose participants to the understanding of the General Specifications for Roads and Bridges with a view to improving their competence in supervision of road and bridge projects.

WHO SHOULD ATTEND?

This workshop is Designed for all Engineers and Allied Professionals involved in Constructions. Maintenance, Supervision and Management of Road and Bridge Projects, they include Road Engineers, Soil Engineers. Resident Engineers, Site Agents, Architects, Planners, Contractors, Consultants, Employers' Representatives, Academicians and Directors of Works and Physical Planning in Nigerian Higher Institutions.

FACILITATORS FOR THE WORKSHOPS

The facilitators are leading experts with extensive competence and experience in the subject area. They will use their highly-rated skills to improve the understanding of the participants.

WORKSHOPS VENUE:

The Nigerian Society of Engineers HQ

National Engineering Centre,
(Off National Mosque-Labour House Road),
Central Area, Abuja

WORKSHOP FEE:

₦100,000/Participant/Workshop.

(Covering lectures, Workshop Materials, CDs of all Presentations, Exercises, Case Studies, Workshop Bag, Tea/Coffee/Snacks, Lunch, but excluding accommodation and transportation).

Discounts: 5% discount for NSE/NICE Member or,
5% discounts for 5 or more delegates from same institution.

REGISTRATION/BOOKING:

Please Contact:

The Nigerian Institution of Civil Engineers

Labour House, behind Ministry of Finance
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Pure Tech Engineering Consultants Limited

No. 10, Lord Lugard Street, Asokoro, Abuja
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Account details for workshop payment to:

Bank: Zenith Bank
Account #: 1010515768
Account Name: Nigerian Institution of Civil Engineers

Cheque payment should be in favour of:

Nigerian Institution of Civil Engineers