# Bangladesh Institute of Management (BIM) Six Month Diploma in

## "Productivity & Quality Management"

With Major in Lean Manufacturing" especially for RMG Sector

### Rationale

economy of Bangladesh, accounting for more than 78 industries. percent of the country's total export earnings. It is likely To increase plenty of productivity and quality professionals to that the future economic development of Bangladesh will the RMG sector. be highly correlated with this sector's performance.

Presently, the RMG sector faces critical operational challenges due to rising production costs and decreasing product prices and increasing the wage scale. Part-I Consequently, efficient utilization of existing resources and workforce are paramount to improve management \* Introduction to Management; structure, productivity and competitiveness. Better utilization of resources are closely linked with qualified management personnel, such as industrial engineer, production manager. Productivity and Quality Manager and Method Study Executive/ Engineer.

Pilot projects were undertaken with BGMEA and BKMEA \* Corporate Social Responsibility (CSR), to improve productivity in their member factories showed \* Total Quality Management, that there are big shortage of professionals who are \* Innovation & Creativity in garment related profession. capable of carrying out activities for improvement of b) Introduction to Garment Manufacturing: productivity within the factories. That is why GIZ decided to \* Introduction to fashion and clothing industry support Bangladesh Institute of Management (BIM) to run \* Supply Chain management in Apparel industry a diploma course on "Productivity and Quality \* Clothing materials and technique Management specially for RMG sector" to develop such \* Cutting room technology type of professionals for the garment industry.

## **Course Description**

The diploma in Productivity & Quality Management with \* Fiber-yarn-fabric Major in Lean Manufacturing is designed to suit the \* Dying, printing & Finishing requirements of Production Managers/ Officer, Industrial c) Garment Production Management: Engineer, Method Study Officer, Productivity & Quality Production planning and control: (Introduction, related Manager/ Officer and also for those who wish to Necessity for PPC, Main function of PPC, Information build a career in a profession which demands in-depth required for PPC, Bill of Material, MRP, ERP, loading, knowledge on Productivity, Quality, Lean Manufacturing & Sequencing, and Gantt Chart Scheduling Method study related issues. The course has a focus on Process Planning: (Machine requirement, M/C output, production, productivity, lean manufacturing & quality Manpower planning, Line balancing) needs of the export sector industries specially for RMG Inventory Control: (Introduction, Selective control of sector industries and a strong practical orientation. Apart inventory e.g. Activity Based Costing (ABC) in the from class room sessions, participants have to do a project garments), EOQ (Economic Order Quantity). work in the productivity lab of BIM and/ or in any factory Demand forecasting (Necessity of forecasting, classification, during which they will learn how to design & implement application in the garments industry) submit a project-based internship report on initial findings, analysis, method of lowering BEP, cost volume analysis at factory level.

#### COURSE OBJECTIVES:

The course aims to equip participants with knowledge and skills needed to:

- i) Identify and solve quality, productivity and lean manufacturing related problems at the workplace
- ii) Build expertise in Productivity & Quality.

Build career as a productivity, quality and lean Manager/ d) Garments Quality Management: The readymade garment sector (RMG) is the hub of the Officer/ Engineer for Garment and other export-oriented •

To reduce the dependency of this area from foreign expert • and to develop sustainable local expert pool for this sector.

### COURSE OUTLINE:

# a) HRM, OB & Social Compliance:

- \* HRM: Its nature, Scope, Functions & Objective
- \* Understanding Human Behaviour, Leadership and Team Building.
- \* Communication etc.
- \* Understanding Social Compliance in the global context.

- Sewing technology
- \* Garment construction technique

systematic productivity, quality and lean manufacturing Production cost concept and break-even analysis: (Cost of system. At the end of the program participants have to garments production, Analysis of production cost, Break even

recommendations and progress achieved. This internship General Management: Basic function of management will allow participants to gain a hands-on lean experience (planning, Organizing, leading, Controlling), HR-Skill matrix. Operator Skill Martix, Incentive System. Motivation

(Different theories of Motivation like Maslow's hierarchy, Heisenberg, Inequality theory), Leadership (Different types of leadership style like transformational, transition leader), Communication (Presentation skills. communication approach and model). IT (Microsoft office).

- Principles and Practice: (Introduction, Understanding Quality, Quality Control & Quality Assurance, Benefits of Quality, customer satisfaction. 8 Dimensions of Quality, Quality Control Organogram).
- Application of quality control of Clothing Materials used in garments Manufacturing: (Identification of Defects of fabric, Trims & accessories)
- Standard inspection Procedure of Fabric & all others Trims and Accessories used in garments. (Theoretical, VIDEO presentation & practical with Materials in the class room.)
- Understanding Quality Specification of Garments & Materials.
- Standard procedure and practices of garment Measurement (Theoretical & Practical in the class room).
- Zone classification of garments.
- Identification of Garment Defects. Classification of Defects, Prevention & Rectification of defects (Theoretical & practical through VIDEO & Materials in the class room)
- Section wise Quality Control Activities in Garment Industry & Quality Control activities in other value adding process in garment manufacturing (Fusing, printing, Embroidery, Washing etc.), Theoretical, Practical & Video presentation.
- Available Quality Control Systems are in practice in Sewing Department including Traffic Light system.
- Statistical procedure of Final Audit & AQL chart.
- RCA & Quality Control Tools: (Cause-Effect analysis, Paroto analysis, 7 QC tools etc.)
- 5S system & its implementation in garment industry (Theoretical & video presentation)
- **Quality Assurance & TQM**
- Garment Factory visit and Report submission (Woven, Cut & sew knit & Fully fashion Garment Industry)
- Production planning and control: (Introduction, Necessity for PPC, Main function of PPC, Information required for PPC, Bill of Material, MRP, ERP, loading, Sequencing, and Scheduling
- Process Planning: (Machine requirement, M/C output, Manpower planning, Line balancing
- Inventory Control:(Introduction, Selective control of inventory e.g. Activity Based Costing (ABC) in the garments)

## e) Industrial Engineering:

## Concept of Industrial Engineering

IE Definition, Production and Productivity, Benefit from Productivity.

Productivity Measures. Productivity measures models Factor influencing productivity. Productivity improvement technique.

### Work & Method Study

Concept of Work Study, Importance, Component of Work

Relation between Work study and Work measurement Relation between work study and productivity.

Concept of Method study, Definition, Scope of method study

Steps involved in method study, method study symbols, Operation process chart.

Work Measurements emphasizes on SMV Calculation. Work measurement, Time study, Rating, Allowances, SMV calculation with time study.

SMV calculation with Standard Sewing Data (SSD) techniques.

## Work Place Design & Plant layout.

Concept Of Plant lay out, Definition, Objective, Relation between layout and productivity

Principles of layout, Factors affecting the layout, Types of production and layout

Steps and Method of line layout in garments industry) Job evaluation and merit rating, Wages and Incentives **Ergonomics** 

# f) Lean Manufacturing:

## Value Stream Mapping

Waste Identification & its impact on Industry.

Relation of Waste To Profit & Loos.

Kaizen, Workplace Organization/5s.

Quick Changeover/Set Up Reduction, Pull Concept. JIT. KANBAN.

Total Productive Maintenance,

Cellular Manufacturing,

One Piece Flow, Visual Control.

Takt Time, Team Building, Balanced Flow,

Quality At The Source, Mistake Proofing, Standardized Work.

Part-II: Internship/ Project/ Practical work in Laboratory or Factory

### TRAINING METHODOLOGY:

Lecture, Presentation, Group Discussion, Case Study, Self-Assessment, and other participatory methods of training.

## WHO SHOULD ATTEND?

This course is designed for Production, Productivity, Lean The consultants hired by GIZ designed the course curriculum Manufacturing, Merchandizing and Work Study related Managers/ Officers working in the Ready-Made Garment and The course is designed to develop the professional Textile sector and other export-oriented production knowledge and skills required to: companies. It is also suitable for Textile and Industrial Engineers and technical Consultants/ Managers/ Officers working in the RMG & Textile sector. This course is also . suitable but seems to be difficult for people not with relevant pre-knowledge or experience but wishes to develop their career in this area.

The educational requirement for this program is at least graduation. Persons having diploma in any branch of engineering/technology along with 4 years experience are also eligible for admission.

## **COURSE FEE:**

- 1. Last date of on-line application: 15<sup>th</sup> December, 2020
- 2. The successful candidate needs to complete the admission process through deposit of full course fee Tk. 36,000/- (Thirty Six Thousand) only per participant, The course focuses primarily on Lean Manufacturing of Director General, BIM.
- 3. To complete the admission, process all participants need to submit their full particulars in Prescribed Form along with 03 (three) color pp size photo and attached copy of all certificates and documents.

#### **DURATION & TIMING**

**Duration: Six Months.** Class Days: only Friday Timing: 09:00 - 18:00 hours

### VENUE:

BIM. DHAKA CAMPUS. 4 Sobhanbag, Mirpur Road, Dhaka 1207. Room No. 202 (1st Floor) Six Stories Building of BIM

## **APPLICATION GUIDELINES**

- 1. Interested person must apply in prescribed "On-line Application Form".
- 2. To get the form, please visit www.bim.org.bd website. Before filling-up the form, please see and follow the detail instructions regarding "How to Fill-up On-line Application Form" and "Detail Admission Procedure for Six Months Diploma Program" in BIM website.

# ONLINE FORM SUBMISSION DEADLINE: 15TH DECEMBER, 2020

in consultation with sectoral experts and other stakeholders.

- implement industrial engineering tools and techniques in garments factory
- develop production and quality related planning & control.
- minimize waste by integrating tools and techniques of lean manufacturing.
- Design the quality according to the customer requirements.

The Program is designed with an extraordinary pool of academician and also practitioner with hands-on experience in lean management.

Participants of this diploma course will get the opportunity to use the Productivity Lab to gain more practical knowledge on time study, line balancing, quality control etc.

according to guideline mentioned in BIM website in favour Techniques and includes topics related to soft skills, such as social compliance, leadership and communications.

For more information, please contact:

Md. Mahbub ul Alam

Senior Management Counsellor

**Program Coordinator** 

**Diploma in Productivity & Quality Management** Cell: 01819113406:

E-mail: maahabubb@gmail.com

# **Mohammad Jubayer Hossain**

Course Secretary

Cell: 01818452674; E-mail: Jubayer.bim@gmail.com

Online Application Query: Mr. Rezaul Karim-01681298045

# BANGLADESH INSTITUTE OF MANAGEMENT (BIM)

4, Sobhanbag, Mirpur Road, Dhaka-1207. Phone: 58155034, 58155077, 58155116, 9103171-3

Fax: 58152476, Website: www.bim.gov.bd

E-mail: dsc.dpqm@gmail.com