

OBJECTIVES OF INDUSTRIAL TRAINING OF TEACHERS

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INTRODUCTION

Majority of Industries complain against the Quality of Polytechnic Passouts especially in respect of conceptual understanding of the subjects and the practical and supervisory skills they require for working on the shop floor or the field. There is a big gap between what is taught by the teachers in polytechnics and what is practiced in Industries. Many teachers have limited industrial know-how and practical experience. Therefore, there is a great need for updating the teachers competence with the active support of industrial and research organisations. The industrial exposure of teachers, both short and long terms has become a must. One of the critical success factors for industrial training of teachers is well thought and formulated objectives.

The authors conducted a study on "**Utility of Industrial Training of Polytechnic Teachers**". The 16 experts from polytechnics and 13 experts from various industries of M.P. were interviewed. According to these experts, the objectives stated below can be used as a guideline for designing a industrial training programme for the teachers.

A Views of Polytechnic Experts :

By the end of industrial training, the teachers should be able to :

- i get themselves acquainted with latest technology and management techniques
- ii comprehend the concepts and techniques related to certain critical areas/topics like cost-effectiveness, quality assurance, total quality management, maintenance practices, safety etc.
- iii identify the gaps/weakness in the present curriculum in consultation with engineers and managers with a view to update the curriculum
- iv co-relate theory with industrial practices
- v get acquainted with industrial environment and work culture
- vi collect drawings, charts, tables, cases, samples etc. with a view to develop industry-based instructional resources for the students
- vii to develop an ability of critical observing the processes, phenomenon, events in the industry
- viii acquire problem solving and decision making ability
- ix appreciate the human relation and situation handling skills required by a supervisor and manager
- x develop an ability of planning, scheduling and monitoring different activities/projects
- xi gain relevant knowledge very useful for preparing the students for the job.

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B Views of Industry Experts :

By the end of the training, the teachers should be able to :

- i) get themselves acquainted with the practical applications pertaining to their disciplines
- ii) understand the modern developments in respect of machines/ processes/ materials etc. pertaining to their disciplines.
- iii) appreciate the expectations of the industry from the polytechnic students joining the industry with a view to prepare them suitably during their stay in the polytechnics
- iv) update the knowledge in the subjects they are teaching or likely to teach in future
- v) differentiate between theory and practice with a view to incorporate the industrial practices in the teaching-learning processes
- vi) understand the competencies/skills and attitudes required by good supervisors in order to prepare students accordingly, during their stay in polytechnics
- vii) gather the first hand information about the working of an industry
- viii) understand the roles, responsibilities and duties of good technician with a view to suggest suitable modifications in the present curriculum
- ix) comprehend the salient concepts of industrial psychology and their applications in the effective performance of roles and responsibilities of supervisors

- x) appreciate the need and importance of humanrelation skills which should be developed in the technicians to work as leader on the shop floor
- xi) understand the industrial environment and work culture with a view to develop such attitudes in the students
- xii) understand the techniques of motivating the workers to increase the productivity.
- xiii) comprehend the techniques of increasing the productivity and increasing the quality of products.
- xiv) know the rules, regulations, procedures and acts followed in the industry/field
- xv) collect suitable data/ information/ suggestions in order to suggest suitable modifications in the present curriculum
- xvi) keep pace with the changing technology.

Conclusion :

The objectives are very crucial for institution as well as industry for better planning, executing and evaluating the industrial training of teachers. The objectives mentioned above are views of polytechnic and industry experts and suggestive in nature. Depending upon the need of individual teacher and the institution, final objectives can be derived for negotiating with industry to gain the maximum benefit out of the industrial training.

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