



SEMINAR ON SANITATION PROBLEMS  
OF RAPID URBANIZATION

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EDUCATION, TRAINING AND EMPLOYMENT  
OF SANITARY ENGINEERS, SANITARIANS AND OTHER AUXILIARY STAFF  
O U T L I N E

by

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WHO Temporary Adviser

- I. Inventory of sanitary engineers and auxiliary staff
  - A. Number of trained sanitary engineers
  - B. Number of trained auxiliary sanitation persons
  - C. Adequacy of training to participate in metropolitan planning activities
- II. Need for sanitary engineers and auxiliary staff
  - A. Number of additional sanitary engineers needed
  - B. Number of auxiliary sanitation persons needed
- III. Education and training of sanitary engineers and auxiliary staff
  - A. General and particular considerations
  - B. Existing facilities and programmes
  - C. Trends in education in environmental health
    1. Systems concepts
    2. Interdisciplinary training

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- D. Enlarging scope of knowledge of presently employed sanitary engineers and auxiliary sanitation personnel
  - 1. Short course training
  - 2. Correspondence courses
  - 3. On-the-job training
- E. Development and training of the younger generation of sanitary engineers and auxiliary personnel
  - 1. Vocational training
  - 2. Collegiate training
    - a) undergraduate programmes
    - b) graduate programmes
    - c) post-graduate programmes
- IV. Establishment of educational programmes in environmental engineering and science
  - A. Educational doctrine
  - B. Development of new facilities
    - 1. Academic staff
    - 2. Equipment and library requirements
    - 3. Financing
- V. Utilization of sanitary engineers and auxiliary sanitation personnel
  - A. General considerations
  - B. Involvement in urban planning procedures
  - C. Monitoring and surveillance of the urban environment
  - D. Evaluation of environmental hazards of metropolitan areas
  - E. Environmental protection and enhancement
    - 1. Corrective measures
    - 2. Preventive measures