



A STUDY ON PERCEPTION OF SECONDARY SCHOOL TEACHERS QUALITY IN EDUCATION

Amarnath Reddy

Assistant Professor and Principal , Global College of Education, Bidar.

ABSTRACT :

This paper aims to present the perception of secondary school teachers in Kalaburagi town regarding Quality and Total Quality Management (TQA'I) in education. It is an attempt to understand how these perceptions vary by demographic variable such as, gender & subject specialization (Arts and Sciences). Data were collected from 156 high school teachers in Mysore (India) on the Bonstingle's conceptualization of Demming's 14 points Total Quality Management (TQM) in Education (1992) and were analyzed using SPSS version 14.0. Analysis of Variance (ANO VA) was employed to find out the significance of difference between variables subscales. Significant difference was found between male and female teachers in the perception of total quality management. Female teachers had higher mean score than male teachers. There is no significant difference between Arts and Sciences secondary school teachers in the perception of TQM in education.

KEYWORDS : Total Quality Management (TQA'I), male teachers , Sciences secondary school teachers.

1. INTRODUCTION:

Quality has been the goal of an eternal through the corridors of human history. It has been the driving force for all human endeavours. Quality is the inspiration for transcendence from the mundane to the higher realms of life. It is the source of craving behind the unfolding human civilization through ages immemorial. Yet it has successfully eluded the dragnet of definitions proving the inadequacy of human intelligence. Quality stares at you. You recognise it. But you cannot define it. Any length of description of the anatomical details of a fragrant and beautiful flower- its petals, colour, shape, size, fragrance, softness, all put together- falls short of conveying its beauty fully. Quality lies in the perception of the consumer. What is "great" for one may not be good enough for another (Mukhopadhyay 2006, p.22). There are various well-

known definitions of quality. Crosby (1979) defines quality as "conformance to requirement" while Juran and Gryna (1980) define quality as "fitness for use". Deming (1986) defines quality as "a predictable degree of uniformity and dependability at low cost and suited to the market". It is more towards quality in operation. Many organisations found that the old definition of quality, "the degree of conformance to a standard", was too narrow. Consequently, they used a new definition of quality in terms of "customer focus". It is reported that many companies had initially concentrated all their efforts on improving internal processes with little or no regard for the relationships between those processes and the organisation's ultimate customers (Brigham 1993). This failure to include the customer focus had resulted in companies struggling hard to survive. In the context of higher education, due to the intangible nature of its processes, there is a considerable discussion on the notions of educational quality (Green 1994 & Harvey 1995). Fincher (1994) describes how quality perspectives have evolved in education over the years by going through a shift from experience to technique, style and finally to process. Harvey and Green (1993) in their seminal work point out that quality is a relative concept. Instead of having a single definition of quality, Harvey and Green provide five discrete but interrelated notions of quality. Quality has a variety of meanings and its range of meanings does cause confusion, as each individual's perception of quality differs (Shields 1999).

There are a number of researchers who have formulated frameworks for quality improvements (Johnson 1993; Susan 1995). These frameworks are entitled as Continuous Quality Improvement (CQI), Strategic Quality Management (SQM) or Total Quality Management (TQM). Even though there might be some differences among these approaches, the term TQM is considered to be more general to capture the essence of quality improvements. TQM has been defined as a strategic architecture requiring evaluation and refinement of continuous improvement practices in all areas of usefulness. Corrigan (1995) gives a definition with an emphasis on customer satisfaction: that "TQM is a management philosophy that builds a customer-driven, learning organization dedicated to total customer satisfaction through continuous improvement in the effectiveness and efficiency of the organization and its processes" (p. 61). According to Kaufman (1992), total quality management provides what is required as judged by the client. It is accomplished through everyone in the organisation being committed to achieve results, a passion for quality and decisions based on performance data. TQM emphasises that it is important for all elements to fit together to turn raw materials into the products and deliverables that satisfy clients. Customer satisfaction is the result most addressed by TQM (Crosby 1979; Caplan 1990). Neves and Nakhai (1993) describe the basic tenets of TQM which are as follows: "long-term perspective, customer focus, and top management commitment, systems thinking, training and tools in quality, increased employee participation, development of a measurement and reporting system, improved communication between management and labour, and continuous improvement". It can be seen from the above definitions that TQM describes two main notions: 1. Continuous improvement and 2. The tools and techniques/methods used. In general, TQM encompasses many management and business philosophies and its focus gets shifted, based on the scenario where TQM is applied. Whether it is in industry or higher education, TQM philosophy revolves around the customer.

TQM in education surfaced in 1988 at Mt. Edgecombe High school in Sitka, Alaska, when David Langford, the school's technology teacher/coordinator, applied Total Quality concepts in his classes. TQM has become increasingly popular in education, as evidenced by the plethora of books and journal articles since 1990 (Tucker 1992). TQM has also spread into mainstream of educational organisations. The Association for Supervision and Curriculum Development, for example, devoted its entire November, 1992 issue of its journal, *Educational Leadership*, to the quality movement in education. In support of the TQM initiatives in education, Crawford and Shutler (1999) applied Crosby (1984) model to suggest a practical strategy for using TQM principles in education. Their strategy focused on the quality of the teaching system used rather than on students' examination results. They argue that examinations are a diagnostic tool for assuring the quality of the teaching system. To satisfy the educational needs of students, continuous improvement efforts need to be directed to curriculum and delivery services. From such a perspective, various root causes of quality system failure in education have been identified. These include poor inputs, poor delivery services, lack of attention paid to performance standards and measurements, unmotivated staff and neglect of students' skills (Ali and Zairi 2005). One of the weaknesses of such a perspective is its concentration on the student as a customer whereas TQM in education should concern the customer

beyond students. Literature available, points to a growing interest in applying TQM in education and for a wide variety of reasons (Thakkar et al. 2006; Temponi 2005). Some of the reasons include: pressures from industry for continuous upgrading of academic standards with changing technology; government schemes with allocation of funds, which encourage research and teaching in the field of quality; increasing competition between various private and government academic institutions; and a reduction in the pool of funds for research and teaching, implying that only reputable institutions will have a likely chance of gaining access to various funds.

The TQM framework should be built upon a set of core values and concepts. These values and concepts provide foundation for integrating the key performance requirements within the quality framework. A set of fundamental core values forming the building blocks of the proposed TQM framework is : Leadership and quality culture; continuous improvement and innovation in educational processes; employee participation and development; fast response and management of information; customer-driven quality and partnership development, both internally and externally. A quality circle consists of small groups of people that meet on a regular basis to discuss problems, to seek solutions, and to cooperate with management in the implementation of those solutions (Juran and Gryna 1980). Quality circles utilise organised approaches to problem solving and operate on the principle that employee participation in decision-making and problem solving improves the quality of work. In education, quality deals with monitoring and identifying the areas that affect the levels of teaching.

2. NEED FOR THE STUDY:

Defining quality in education is a massive challenge since it deals with the most sensitive creation on earth —the human being. Industrial products are finished goods- take them or leave them. Nothing can be done once they are finished. Service is here and now. You can look for better quality only next time. Education has no such finished product, nor even the graduates. They are on the way "to be". Education only charges the human propensities to evolve and unfold it till the last breath, a process that covers the human journey from 'womb to tomb'. Human beings continue to learn, and evolve, to be (Mukhopadhyay 2006). Education is goal-oriented. Accordingly, quality of education has been seen with reference to excellence in education, value addition in education (Feigenbaum 1983), fitness of educational outcome and experience for use (Juran and Gryna 1988), conformance of education output to planned goals, specifications and requirements (Crosby 1979), defect avoidance in education process (Crosby 1979) and meeting or exceeding customer's expectation of education (Parasuraman et al. 1985). Holt (2000) argues, 'I shall suppose that education is concerned with the development that of minds of the pupils; school produce educated persons who, by virtue of their schooling, to be construed? Commitment to quality makes student proud to learn and work hard for improvement. Quality improvement is a never ending process. Education quality leads to a prospective future. Hence, insight on quality indices and virtual implementation need to be given top priority and due attention should be paid to the category in the wide range of educational strata e.g. school, university, educational management, and the staff.

3. OBJECTIVES:

- a. To study the level of perception of secondary school teachers in Mysore city regarding TQM in education.
- b. To study the difference between Male and Female secondary school teachers in the level of perception regarding TQM in education.
- c. To study the difference between Arts and Science secondary school teachers in the level of perception regarding TQM in education.

4. HYPOTHESES:

- a. There is no significant difference between Male and Female secondary school teachers in the level of perception regarding TQM in education.
- b. There is no significant difference between Arts and Science secondary school teachers in the level of perception regarding TQM in education.

5. METHODOLOGY:

5.1. Sample:

A total of 156 teachers were elected from 21 secondary schools in Mysore. Teachers were randomly selected. Randomly, 21 schools were selected from total 61 secondary schools Mysore city (India). All the teachers of Science subject and Arts subject selected school were considered as sample for the study. Thus, the sample for the study consisted of 126 teachers of secondary school.

5.2. Tools:

Survey Instrument of Bonstingle (1992) was used to get the data on perception of secondary school teachers regarding TQM in education. The original form of this tool consisted of 84 items based on Bonstingle's conceptualisation of Demming's 14 points of Total Quality Management (TQM) in Education. All the items under 14 points are to be rated by the sample respondents on 4- point Likert's scale having the ratings of " Not applicable"(0), Low (1) Medium (2),and "High" (3). In this study, 6 out of 14 points of Deming consisting of only 30 items were considered because they were very much related to school programmes, teacher teaching and student learning (Mukhopadhyay 2006). They were 1. Create constancy of purpose, 2. Adopt new philosophy, 3. Improve constantly, 4. Institute training on the job, 5. Institute leadership, 6. Drive out fear, so that everyone may work effectively for the institution.

5.3. Procedure:

The selected school teachers were met individually for explaining purpose of the study and were instructed how to respond to the scale survey instrument of Total Quality Management in Education. Further clarifications were offered on the questions/doubts raised by them.

5.4. Statistical Analysis:

The scales were scored as indicated above and the data obtained were subjected to statistical analysis using SPSS for windows (Evaluated Version 14.0). Mean and SD were calculated separately for all the 4 points in the scale and the total scale to describe the level of perception of secondary school teachers regarding TQM in education. The study employed "t" test for significance of difference between means to test the hypotheses formulated for the study. Considering the possible range of total scores on TQM questionnaire (0 to 90), the sample teachers were categorised into 3 groups: AA (Above Average), A (Average) and BA (Below Average) in perception about TQM in education. For this purpose, the total possible score 90 was divided equally into 3 groups: Teachers scoring between 0-30 as Below Average, 31-60 as Average and 61-90 as Above Average. The details of the number and percentage of teachers of 3 categories were: AA (No.38 and 24.3%) A (No.87 and 55.8%) and BA (No. 31 and 19.9%). The study employed "t" test to find out the significance of difference in the perception about TQM in education between difference categories of teachers, Male and Female, Arts and Science, in Mysore. SPSS for Windows (version 14.0) was used for statistical analysis.

6. RESULTS:

Results indicated that more than 50% secondary school teachers (58.2%) exhibited Average level of perception about TQM in education. However, the percentage of teachers with Above Average level of perception about TQM was more (24.3%) than that of teachers with Below Average level of perception about TQM (19.9%). According to the first null hypothesis "There is no significant difference between Male and Female secondary school teachers in the level of perception regarding TQM in education". The obtained results taken by SPSS 14 indicated that, there was significant difference between female and male teachers of Mysore in the perception of TQM ($t = 2.11$ significance of 0.03 level). The observation of means between male and female secondary school teachers in Mysore indicated that the mean score of female teachers (mean = 1.76) was higher than that of male teachers (mean= 1.63). It is concluded that female teachers have better perception than male teachers regarding TQM in education. Thus, rejecting the null hypothesis, it is inferred that, there is significant difference between male and female teachers in the perception about TQM

in education. The second null hypothesis stated that "There is no significant difference between Arts and Science secondary school teachers in the level of perception regarding TQM in education". The obtained results taken by SPSS 14 indicated that, there was no significant difference between Arts and Science secondary school teachers of Mysore in the perception of TQM ($t = 1.17$ significant of 0.11 level). Thus, respecting the null hypothesis, it is inferred that, there is no significant difference between Arts and Science secondary school teachers in the perception about TQM in education.

7. FINDINGS AND DISCUSSION:

1. There is significant difference between male and female teachers in the perception about TQM in education.
2. There is no significant difference between Arts and Science secondary school teachers in the perception about TQM in education.
3. More than 60% secondary school teachers exhibited Average level of perception about TQM in education. Female teachers in secondary schools had better perception about Total Quality Management (TQM) in education than male teachers.
4. Arts and Science teachers in secondary school do not differ in the perception about TQM in education. To conclude, educational organisations such as schools, colleges and universities should have individuals who are committed to their organization, profession and wellbeing of their students.

The vitality of all educational organisations lies in the willingness of principals to contribute to the development of their organisations. The process of TQM will lead to all round development of the institution, principals, teachers and students. The literature reveals that there is no difference between male and female of teachers in the level of perception total quality management in education (Thakkar et al. 2006; Temponi 2005). In contrast, study found the significant difference between male and female secondary school teachers in the perception about TQM in education. It has been suggested that total quality management may be a more feminine style of leading, but (Ali and Zairi 2005) found a significant difference between female and male teachers and total quality management. Men attributed their use of power and direct styles to total quality management, whereas women attributed their use of relational styles to total quality management.

8. CONCLUSION:

In all fields, especially education quality has an important matter. Total Quality Management as a necessary element always has a direct influence on the human improvement. It can be also led to high commitment and spirit in work environment. According to the study majority of secondary school teachers have exhibited Average level of TQM in education. However, the percentage of teachers with Above Average level of TQM is more than that of teachers with Below Average level of TQM. Usually the common observation is that, females' teachers are more sincere and committed to their work. Always give importance to the quality as such female teachers in the present also study have better perception than male teachers about TQM in education. However, it can be suggested that, measures should be taken to see that, male teachers also have better perception of TQM and all the activities of the school to promote quality education. It is better for all the teachers of the institutions to be exposed to more quality in education which in turn would influence the perception of teaching. Teachers should be encouraged towards positive aspect of TQM and to take active participation to render quality education.

REFERENCES:

1. **Corrigan, J. (1995)** The art of TQM. Quality Progress 28, 61-64.
2. **Crawford, L. E. D. & Shutler, P. (1999)** Total Quality Management in education: problems and issues for the classroom teacher. The International Journal of Educational Management 13, 2,67-72
3. **Crosby, P. B. (1984)** Quality without Tears. New American Library, New York.
4. **Crosby, P. B. (1979)** Quality Is Free. McGraw-Hill, New York.
5. **Bensimon, E. & Neumann, A. (1993)** Redesigning Collegiate Leadership. Johns Hopkins, Baltimore, MD.
6. **Bonstingl, J. J. (1992)** Schools of Quality. An Introduction to Total Quality Management in Education.

- Association for Supervision and Curriculum Development, Alexandria. Brigham, S. E. (1993) Lessons we can learn from industry. *Change* 25, 3, 42-7,
7. **Caplan, F. (1990)** The Quality System: A Sourcebook for Managers and Engineers. Chilton Book, Radnor, PA.
 8. **Deming, W. E. (1986)** Out of Crisis. Cambridge University Press, Cambridge.
 9. **Feigenbaum, A. V. (1983)** Total Quality Control. McGraw Hill, New York.
 10. **Fincher, C. (1994)** Quality and diversity the mystique of process. In Fincher, C. (Ed.) Defining and Assessing Quality, 84-94. Institute of Higher Education, University of Georgia, Athens.
 11. **Friedman, A. A. (2004)** Beyond mediocrity transformational leadership within a transactional framework: *International Journal of Leadership in Education* 7, 3, 203-24
 12. **Green, D. (1994)** What is quality in higher education? Concepts, policy and practice. In Green, D. (Ed.) What Is Quality in Higher Education 3-30. Open University Press and Society for Research into Higher Education, Buckingham.
 13. **Harvey, L. (1995)** Editorial: The quality agenda. *Quality in Higher Education* 1, 1, 5-12.
 14. **Harvey, L. & Green, D. (1993)** Defining quality. *Assessment and Evaluation in Higher Education* 18, 1, 9-34
 15. **Holt, M. (2000)** The concept of quality in education. In Hoy, C., Bayne-Jardine, C. and Wood, M. Improving Quality in Education. Falmer Press, London.
 16. **Johnson, R.S. (1993)** TQM.. Management Processes for Quality Operations. ASQC, Quality Press, Milwaukee, WI.
 17. **Juran, J. M. & Gryna, F. M. (1980)** Quality Planning and Analysis. McGraw-Hill, New York.
 18. **Kezar, A. J. (1998)** Exploring new avenues for leading community colleges: the paradox of consultative models. *Community College Review* 25, 4, 75-87
 19. **Kaufman, R. (1992)** The challenge of Total Quality Management in education. *International Journal of Education Reform* 1, 2, 149-65
 20. **Lagrosen, S., Hashemi, R. S. & Leitner, M. (2004)** Examination of the dimensions of quality in higher education. *Quality Assurance in Education* 12, 2, 61-9
 21. **Mukhopadhyay, M. (2006)** Total Quality Management in Education. Sage, New Delhi.
 22. **Neves, J. S. & Nakhai, B. (1993)** The Baldrige award framework for teaching total quality management. *Journal of Education for Business* 69, 2, 121-5
- Parasuraman, A., Zeithaml, V. A., & Berry, L. L. (1985)** A conceptual model of service quality and its implications for future research. *Journal of Marketing* 4, 4, 114-19



Amarnath Reddy

Assistant Professor and Principal , Global College of Education, Bidar.