



UNIVERSITI TEKNOLOGI MARA

VCM777: QUALITY CONTROL IN GRAPHIC ART

Course Name (English)	QUALITY CONTROL IN GRAPHIC ART APPROVED
Course Code	VCM777
MQF Credit	3
Course Description	This course discusses the concept of quality and the importance of quality printing in relation to business survival and competitiveness. Students will learn the fundamentals of statistical process control (SPC) as a defect prevention approach to print production processes. Students will explore the role of management and its involvement in addressing the need for change and making quality improvement program work. Class sessions are a combination of lectures, discussion, and when appropriate, guest speakers.
Transferable Skills	Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination, and accountability.
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Discussion, Presentation, Workshop, Small Group Sessions
CLO	CLO1 Formulate the concept of quality and the importance of quality printing in relation to business survival and competitiveness. CLO2 Organise specifications and standards in the printing industry for quality control and assurance. CLO3 Explain the importance of management commitment and involvement in managing change and making quality improvement program work.
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. Fundamentals of quality 1.1) 1.1 What is quality? 1.2) 1.2 Quality of printed products	
2. 2. Fundamentals of quality (cont) 2.1) 2.1 Cost of quality 2.2) 2.2 Relationship between quality and productivity	
3. 3. Process capability and product specifications 3.1) 3.1 Variability 3.2) 3.2 Assessment of variability via measurement and statistics	
4. 4. Process capability and product specifications 4.1) 4.1 Process capability vs. product specifications	
5. 5. Product control and process control 5.1) 5.1 Source of variability in printing processes 5.2) 5.2 Acceptance sampling for product control	
6. 6. Product control and process control 6.1) 6.1 Use of SPC tools for process control	
7. 7. Managing for quality 7.1) 7.1 Cost of quality 7.2) 7.2 Quality assurance program	
8. 8. Managing for quality 8.1) 8.1 Print Quality Index (PQI) 8.2) 8.2 Supplier quality	

9. 9. Managing for quality 9.1) 9.1 Managing change 9.2) 9.2 Performance-based assessment
10. 10. Standardization 10.1) 10.1 Graphic arts technology standards
11. 11. Standardization 11.1) 11.1 Reference printing conditions: GRACoL
12. 12. Quality system model 12.1) 12.1 ISO quality system graphic arts
13. 13. Quality system model 13.1) 13.1 Other Systems and Specifications
14. 14. Lab Environment 14.1) 14.1 Colour Correction and Management 14.2) 14.2 Proofing and Profiling 14.3) 14.3 Output

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Lab Exercise	n/a	20%	CLO1 , CLO2
	Test	Test 1	20%	CLO1
	Test	Test 2	20%	CLO1 , CLO2 , CLO3

Reading List	Recommended Text
	<ul style="list-style-type: none"> • David Bann 2007, <i>The All New Print Production Handbook</i>, Watson-Guption Publications [ISBN: 082309992X] • Eric Kenly, Mark Beach 2004, <i>Getting It Printed</i>, HOW Books [ISBN: 1581805772] • Miles Southworth, Donna Southworth 1989, <i>Quality and Productivity in the Graphic Arts</i>, Graphic Arts Books [ISBN: 0933600054]

Article/Paper List	
	This Course does not have any article/paper resources

Other References	
	This Course does not have any other resources