

7-8

INVESTIGATION AND CLARIFICATION OF THE PROBLEM

- COMPREHENSIVE, ORGANISED RANGE OF SOURCES OF INFORMATION INCLUDING RELEVANT PRACTICAL INVESTIGATIONS, TAKING INTO ACCOUNT CURRENT TRENDS, AVAILABLE TECHNOLOGIES AND THE NEEDS OF THE CLIENT
- PERCEPTIVE ANALYSIS OF INFORMATION
- COMPREHENSIVE SPECIFICATION, WELL REASONED AND BASED ON RESEARCH AND INVESTIGATION

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5-6

INVESTIGATION AND CLARIFICATION OF THE PROBLEM

- WIDE RANGE OF SOURCES OF INFORMATION, ORGANISED AND SUPPORTED BY RELEVANT PRACTICAL INVESTIGATIONS, TAKING INTO ACCOUNT CURRENT TRENDS, AVAILABLE TECHNOLOGIES AND THE NEEDS OF THE CLIENT
- GOOD ANALYSIS OF INFORMATION
- WELL-EXPLAINED SPECIFICATION WHICH REFLECTS RESEARCH AND INVESTIGATION

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3-4

INVESTIGATION AND CLARIFICATION OF THE PROBLEM

- A RANGE OF SOURCES OF INFORMATION, SUPPORTED BY RELEVANT PRACTICAL INVESTIGATIONS, WITH SOME CONSIDERATION OF AVAILABLE TECHNOLOGIES AND THE NEEDS OF THE CLIENT
- SOME ANALYSIS OF INFORMATION
- A SPECIFICATION WHICH IS A LIST OF POINTS WITH SOME EXPLANATION

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INVESTIGATION AND CLARIFICATION OF THE PROBLEM

- NARROW RANGE OF SOURCES OF INFORMATION SUPPORTED BY RELEVANT PRACTICAL INVESTIGATIONS WITH LITTLE AWARENESS OF AVAILABLE TECHNOLOGIES OR THE NEEDS OF THE CLIENT
- LITTLE ANALYSIS OF INFORMATION
- THE SPECIFICATION IS A RANGE OF POINTS WITH ONE OR TWO POINTS EXPLAINED

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INVESTIGATION AND CLARIFICATION OF THE PROBLEM

- MINIMAL SOURCES OF INFORMATION AND LITTLE AWARENESS OF THE NEEDS OF THE CLIENT
- THE SPECIFICATION IDENTIFIES A FEW OBVIOUS POINTS WHICH ARE STATED SIMPLISTICALLY

/8

DEVELOPMENT OF A DESIGN PROPOSAL

19-24

- COMPREHENSIVE, IMAGINATIVE AND FEASIBLE IDEAS
- EXCELLENT DEVELOPMENT OF A SOPHISTICATED/ELEGANT SOLUTION ACHIEVED BY EXPLORING AND EXPERIMENTING WITH DIFFERENT PROPORTIONS, MATERIAL COMBINATIONS AND THE FUNCTIONS OF MATERIALS, METHODS OF PRODUCTION, CONSTRUCTION AND MODELLING
- FULL EXPLANATION OF ALL DECISIONS MADE
- COMPREHENSIVE AND DETAILED PLAN OF MAKING, INCLUDING RELEVANT QUALITY CONTROL CHECKS, IN ORDER TO ACHIEVE A HIGH QUALITY OUTCOME IN THE STATED TIME

/24

DEVELOPMENT OF A DESIGN PROPOSAL

13-18

- VARIED RANGE OF IMAGINATIVE AND FEASIBLE IDEAS
- GOOD DEVELOPMENT OF IDEAS ACHIEVED THROUGH EXPERIMENTAL WORK AND USE OF A RANGE OF DIFFERENT MATERIALS, SHOWING UNDERSTANDING OF THE FUNCTIONS OF THE MATERIALS, CONSTRUCTION TECHNIQUES AND MODELLING
- CLEAR EXPLANATIONS GIVEN OF ALL DECISIONS MADE
- DETAILED PLAN OF MAKING, INCLUDING RELEVANT QUALITY CONTROL CHECKS, WHICH IDENTIFIES THE SEQUENCE OF ACTIVITIES TO ACHIEVE A GOOD QUALITY OUTCOME IN THE STATED TIME

/24

DEVELOPMENT OF A DESIGN PROPOSAL

9-12

- ADEQUATE RANGE OF FEASIBLE IDEAS WITH SOME IMAGINATION
- ADEQUATE DEVELOPMENT TO ALLOW A SUCCESSFUL PRODUCT WITH SOME EXPERIMENTAL WORK WITH DIFFERENT MATERIALS AND CONSTRUCTION TECHNIQUES
- SOUND EXPLANATIONS OF DECISIONS MADE
- GOOD PLAN THAT IDENTIFIES THE ESSENTIAL STAGES OF MAKING; A PREDICTED TIME SCHEDULE IS GIVEN

/24

DEVELOPMENT OF A DESIGN PROPOSAL

5-8

- LIMITED RANGE OF FEASIBLE IDEAS, LITTLE IMAGINATION
- BASIC DEVELOPMENT WITH A LITTLE TESTING
- SOME EXPLANATION OF DECISIONS MADE
- A PLAN THAT IDENTIFIES THE ESSENTIAL STAGES OF MAKING

/24

DEVELOPMENT OF A DESIGN PROPOSAL

0-4

- SIMPLE IDEAS, LACK OF IMAGINATION
- MINOR CHANGES TO INITIAL IDEA AND NO EVIDENCE OF DEVELOPMENT
- SIMPLISTIC EXPLANATION OF DESIGN DECISIONS MADE
- LIMITED PLAN FOR THE MAIN STAGES OF MAKING

/24

MAKING/MODELLING

- HIGH LEVEL OF MAKING/MODELLING SKILLS AND ACCURACY USING A VARIED RANGE OF MATERIALS WITH ABILITY TO ADAPT THE ORIGINAL IDEA
- 19-24 • PLANNED QUALITY CONTROL CHECKS ARE APPLIED THROUGHOUT THE MAKING/MODELLING TO ENSURE CONSISTENCY AND SAFETY
- OUTCOME SATISFIES ALL MAJOR POINTS OF THE SPECIFICATION
- IN-DEPTH AND DETAILED USE OF APPROPRIATE MODELLING STRATEGIES WHICH HELP CLARIFY THE FORM OF THE PROTOTYPE OR PRODUCT AND PRODUCTION/MANUFACTURING METHODS

/24

MAKING/MODELLING

- VERY GOOD LEVEL OF MAKING/MODELLING SKILLS USING A RANGE OF MATERIALS AT WELL ABOVE AVERAGE LEVEL OF ACCURACY
- 13-18 • PLANNED QUALITY CONTROL CHECKS ARE APPLIED TO THE MAKING/MODELLING
- OUTCOME SATISFIES MOST MAJOR POINTS OF THE SPECIFICATION
- SOUND USE OF APPROPRIATE MODELLING STRATEGIES WHICH HELP CLARIFY THE FORM OF THE PROTOTYPE OR PRODUCT AND PRODUCTION/MANUFACTURING METHODS

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MAKING/MODELLING

- GOOD LEVEL OF MAKING SKILLS USING MATERIALS AT AND ABOVE AVERAGE LEVEL OF ACCURACY
- 9-12 • PLANNED QUALITY CONTROL CHECKS USED IN PARTS OF THE MAKING/MODELLING
- OUTCOME SATISFIES SOME POINTS OF THE SPECIFICATION
- APPROPRIATE MODELLING STRATEGIES USED TO HELP DEVELOP THE PROTOTYPE OR PRODUCT

/24

MAKING/MODELLING

- ADEQUATE LEVEL OF SKILL USING MATERIALS WITH SOME CONFIDENCE
- SOME ATTENTION PAID TO THE QUALITY OF THE FINISHED PRODUCT
- 5-8 • PARTS OF THE OUTCOME SATISFY SOME POINTS OF THE SPECIFICATION
- SOME MODELLING STRATEGIES USED TO HELP DEVELOP THE PROTOTYPE OR PRODUCT

/24

MAKING/MODELLING

- SOME ABILITY TO MANIPULATE A LIMITED RANGE OF MATERIALS USING BASIC TECHNIQUES
- 0-4 • LITTLE ATTENTION PAID TO QUALITY OF THE FINISHED PRODUCT
- LITTLE OF THE SPECIFICATION IS MET
- LIMITED EVIDENCE OF MODELLING STRATEGIES USED TO DEVELOP THE PROTOTYPE OR PRODUCT

/24

EVALUATION & TESTING

- DETAILED AND COMPREHENSIVE TESTING STRATEGY APPLIED THROUGHOUT WITH RESULTS USED TO INFORM THE DESIGN AND REFINE ANY MODIFICATIONS
- ALL ASPECTS OF THE FINAL PROTOTYPE OR PRODUCT TESTED AND EVALUATED AGAINST THE SPECIFICATION
- COMMENTS OF OTHERS USED APPROPRIATELY TO DEVELOP THE PROTOTYPE OR PRODUCT TO IMPROVE THE EFFECTIVENESS OF THE FINAL OUTCOME

9-12

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EVALUATION & TESTING

- APPROPRIATE TESTING STRATEGY APPLIED THROUGHOUT WITH RESULTS USED TO INFORM THE DESIGN AND ANY MODIFICATIONS
- ALL RELEVANT COMBINATIONS OF MATERIALS AND PROCESSES TESTED AND EVALUATED AGAINST THE SPECIFICATION
- VIEWS OF OTHERS SOUGHT AT VARIOUS POINTS DURING THE DESIGN PROCESS AND USED TO DEVELOP AND IMPROVE THE OUTCOME

7-8

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EVALUATION & TESTING

- FROM A STRUCTURED TESTING PROCEDURE, CONCLUSIONS ARE DRAWN OF WAYS TO IMPROVE THE PRODUCT.
- SOME COMBINATIONS OF MATERIALS AND PROCESSES ARE TESTED AND EVALUATED AGAINST THE SPECIFICATION
- OTHER PEOPLE'S OPINIONS TAKEN INTO ACCOUNT

5-6

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EVALUATION & TESTING

- FROM A BASIC TESTING PROCEDURE CONCLUSIONS ARE USED TO SUGGEST WAYS OF IMPROVING THE PRODUCT
- LIMITED TESTING AND EVALUATION AGAINST THE SPECIFICATION
- OTHER PEOPLE'S OPINIONS SOUGHT

3-4

/12

EVALUATION & TESTING

- A BASIC TESTING PROCEDURE GENERATES SOME CONCLUSIONS.
- BASIC TESTING AND EVALUATION AGAINST THE SPECIFICATION
- FORMATIVE AND SUMMATIVE COMMENTS LARGELY PREDICTABLE AND BASED ON PERSONAL OPINION

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COMMUNICATION & PRESENTATION

- EXCELLENT LEVEL OF COMMUNICATION AND PRESENTATION, INCLUDING COMPETENT USE OF APPROPRIATE TECHNICAL LANGUAGE
- EXCELLENT WIDE RANGE OF APPROPRIATE MATERIALS, TECHNIQUES AND MEDIA USED TO CONVEY DETAILS OF DESIGNING AND MAKING
- COMPLEX IDEAS EXPRESSED EXTREMELY CLEARLY AND FLUENTLY IN A STRUCTURED AND RELEVANT WAY WITH FEW, IF ANY, ERRORS OF GRAMMAR, PUNCTUATION AND SPELLING

9-12

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COMMUNICATION & PRESENTATION

- VERY GOOD LEVEL OF COMMUNICATION AND PRESENTATION, INCLUDING COMPETENT USE OF APPROPRIATE TECHNICAL LANGUAGE
- VERY GOOD RANGE OF APPROPRIATE MATERIALS, TECHNIQUES AND MEDIA USED TO CONVEY DETAILS OF DESIGNING AND MAKING
- MODERATELY COMPLEX IDEAS EXPRESSED CLEARLY AND FLUENTLY IN A REASONABLY STRUCTURED AND RELEVANT MANNER WITH ONLY OCCASIONAL ERRORS OF GRAMMAR, PUNCTUATION AND SPELLING

7-8

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COMMUNICATION & PRESENTATION

- GOOD LEVEL OF COMMUNICATION AND PRESENTATION WITH GOOD USE OF APPROPRIATE TECHNICAL LANGUAGE
- GOOD RANGE OF MATERIALS, TECHNIQUES AND MEDIA USED TO CONVEY THE DETAILS OF DESIGNING AND MAKING
- STRAIGHTFORWARD IDEAS EXPRESSED CLEARLY WITH SOME ERRORS OF GRAMMAR, PUNCTUATION AND SPELLING BUT NOT SUFFICIENT TO SUGGEST A WEAKNESS IN THESE AREAS

5-6

/12

COMMUNICATION & PRESENTATION

- REASONABLE LEVEL OF COMMUNICATION AND PRESENTATION WITH LIMITED USE OF APPROPRIATE TECHNICAL LANGUAGE
- A LIMITED RANGE OF MATERIALS, TECHNIQUES AND MEDIA USED TO CONVEY THE DETAILS OF DESIGNING AND MAKING
- SIMPLE IDEAS EXPRESSED CLEARLY WITH ERRORS OF GRAMMAR, PUNCTUATION AND SPELLING INDICATING A WEAKNESS IN THESE AREAS

3-4

/12

COMMUNICATION & PRESENTATION

- EVIDENCE OF COMMUNICATION AND PRESENTATION AT BASIC LEVEL WITH LITTLE USE OF TECHNICAL LANGUAGE
- SOME ATTEMPT HAS BEEN MADE TO CONVEY THE DETAILS OF DESIGNING AND MAKING
- SOME ATTEMPT MADE TO EXPRESS IDEAS WITH SIGNIFICANT ERRORS OF GRAMMAR, PUNCTUATION AND SPELLING SUGGESTING MAJOR WEAKNESSES IN THESE AREAS

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