

CERTIFIED RELIABILITY ENGINEER PRIMER

CERTIFIED RELIABILITY ENGINEER PRIMER CERTIFIED RELIABILITY ENGINEER PRIMER YOUR GUIDE TO ACHIEVING RELIABILITY EXCELLENCE THIS PRIMER PROVIDES A COMPREHENSIVE INTRODUCTION TO THE WORLD OF RELIABILITY ENGINEERING SPECIFICALLY FOCUSING ON THE CERTIFICATION PATH TOWARDS BECOMING A CERTIFIED RELIABILITY ENGINEER CRE IT DELVES INTO THE CORE CONCEPTS METHODOLOGIES AND PRACTICAL APPLICATIONS OF RELIABILITY ENGINEERING EQUIPPING YOU WITH THE KNOWLEDGE AND TOOLS NECESSARY TO EXCEL IN THIS DEMANDING FIELD RELIABILITY ENGINEERING CRE CERTIFICATION RELIABILITY ANALYSIS FAILURE ANALYSIS RELIABILITY TESTING MAINTAINABILITY AVAILABILITY MEAN TIME TO FAILURE MTTF MEAN TIME BETWEEN FAILURES MTBF RELIABILITY GROWTH FMEA FMECA RCM ACCELERATED LIFE TESTING RELIABILITY DATA ANALYSIS STATISTICAL METHODS RELIABILITY ENGINEERING IS A CRITICAL DISCIPLINE THAT PLAYS A VITAL ROLE IN ENSURING THE SUCCESSFUL OPERATION AND LONGEVITY OF COMPLEX SYSTEMS AND PRODUCTS BY EMBRACING RELIABILITY ENGINEERING PRINCIPLES ORGANIZATIONS CAN SIGNIFICANTLY IMPROVE PRODUCT QUALITY MINIMIZE DOWNTIME ENHANCE CUSTOMER SATISFACTION AND OPTIMIZE COSTS THIS PRIMER SERVES AS YOUR STEPPING STONE TO UNDERSTANDING THE FUNDAMENTAL CONCEPTS METHODOLOGIES AND APPLICATIONS OF RELIABILITY ENGINEERING EMPOWERING YOU TO CONTRIBUTE TO BUILDING HIGHLY RELIABLE AND RESILIENT SYSTEMS THE JOURNEY TO BECOMING A CRE ACHIEVING CRE CERTIFICATION DEMONSTRATES YOUR COMMITMENT TO PROFESSIONAL EXCELLENCE IN RELIABILITY ENGINEERING THIS CERTIFICATION SIGNIFIES YOUR MASTERY OF ESSENTIAL CONCEPTS YOUR ABILITY TO APPLY THEM IN REALWORLD SCENARIOS AND YOUR DEDICATION TO CONTINUOUS IMPROVEMENT THE CORE PILLARS OF RELIABILITY ENGINEERING UNDERSTANDING FAILURE RELIABILITY ENGINEERING BEGINS WITH THE UNDERSTANDING OF HOW AND WHY SYSTEMS FAIL THIS INVOLVES IDENTIFYING FAILURE MODES ANALYZING ROOT CAUSES AND DEVELOPING EFFECTIVE MITIGATION STRATEGIES PREDICTING AND PREVENTING FAILURES 2 BY EMPLOYING STATISTICAL METHODS AND ANALYTICAL TOOLS RELIABILITY ENGINEERS CAN PREDICT FUTURE

FAILURE BEHAVIOR IDENTIFY POTENTIAL WEAKNESSES AND IMPLEMENT PREVENTATIVE MEASURES TO MINIMIZE RISKS ENHANCING SYSTEM ROBUSTNESS RELIABILITY ENGINEERS WORK TO DESIGN DEVELOP AND MAINTAIN SYSTEMS THAT ARE INHERENTLY RESILIENT TO FAILURES THIS INCLUDES ENSURING COMPONENTS ARE WELLCHOSEN REDUNDANCY IS INCORPORATED WHERE NECESSARY AND MAINTENANCE PROCEDURES ARE OPTIMIZED MEASURING RELIABILITY KEY METRICS LIKE MEAN TIME TO FAILURE MTTF MEAN TIME BETWEEN FAILURES MTBF AND AVAILABILITY ARE USED TO OBJECTIVELY MEASURE SYSTEM RELIABILITY AND TRACK PROGRESS OVER TIME CONTINUOUS IMPROVEMENT RELIABILITY ENGINEERING IS AN ITERATIVE PROCESS OF CONTINUOUS IMPROVEMENT BY ANALYZING PERFORMANCE DATA IDENTIFYING AREAS FOR OPTIMIZATION AND IMPLEMENTING CORRECTIVE ACTIONS RELIABILITY ENGINEERS DRIVE ONGOING ENHANCEMENTS TO SYSTEM RELIABILITY ESSENTIAL TOOLS AND TECHNIQUES IN THE CREs TOOLBOX FAILURE MODE AND EFFECTS ANALYSIS FMEA A STRUCTURED METHOD FOR IDENTIFYING POTENTIAL FAILURE MODES ANALYZING THEIR POTENTIAL EFFECTS AND DEVELOPING MITIGATION STRATEGIES FAILURE MODE EFFECTS AND CRITICALITY ANALYSIS FMECA AN EXTENSION OF FMEA THAT ASSESSES THE SEVERITY OCCURRENCE AND DETECTION OF POTENTIAL FAILURES ENABLING PRIORITIZATION OF MITIGATION EFFORTS RELIABILITY CENTERED MAINTENANCE RCM A PROACTIVE APPROACH TO MAINTENANCE THAT FOCUSES ON IDENTIFYING CRITICAL SYSTEMS AND IMPLEMENTING MAINTENANCE STRATEGIES BASED ON THEIR SPECIFIC FAILURE MODES AND THEIR IMPACT ON SYSTEM OPERATION ACCELERATED LIFE TESTING A TECHNIQUE USED TO ACCELERATE THE DEGRADATION OF COMPONENTS UNDER CONTROLLED CONDITIONS ALLOWING FOR RAPID EVALUATION OF RELIABILITY AND ACCELERATED IDENTIFICATION OF POTENTIAL FAILURE MECHANISMS STATISTICAL METHODS RELIABILITY ENGINEERS HEAVILY RELY ON STATISTICAL METHODS FOR DATA ANALYSIS MODELING AND PREDICTION THESE METHODS HELP TO QUANTIFY UNCERTAINTIES ESTABLISH CONFIDENCE INTERVALS AND MAKE INFORMED DECISIONS BASED ON AVAILABLE DATA THE PATH TO CRE CERTIFICATION THE PROCESS OF OBTAINING CRE CERTIFICATION TYPICALLY INVOLVES 1 MEETING ELIGIBILITY REQUIREMENTS THIS MAY INCLUDE HAVING A CERTAIN LEVEL OF EDUCATION OR WORK EXPERIENCE IN A RELATED FIELD 2 PREPARING FOR THE EXAMINATION RIGOROUS PREPARATION IS KEY TO SUCCESS THIS INCLUDES 3 STUDYING COMPREHENSIVE RESOURCES PRACTICING WITH MOCK EXAMS AND SEEKING GUIDANCE FROM EXPERIENCED RELIABILITY ENGINEERS

3 PASSING THE CERTIFICATION EXAM THE EXAM ASSESSES YOUR UNDERSTANDING OF RELIABILITY ENGINEERING PRINCIPLES METHODOLOGIES AND APPLICATIONS 4 MAINTAINING CERTIFICATION TO ENSURE CONTINUED COMPETENCE CREs NEED TO ENGAGE IN ONGOING PROFESSIONAL DEVELOPMENT AND STAY ABREAST OF INDUSTRY ADVANCEMENTS THOUGHTPROVOKING CONCLUSION THE WORLD OF RELIABILITY ENGINEERING IS CONSTANTLY EVOLVING AS SYSTEMS BECOME INCREASINGLY COMPLEX AND THE DEMAND FOR HIGH RELIABILITY GROWS BY EMBRACING THE PRINCIPLES AND METHODOLOGIES OF RELIABILITY ENGINEERING YOU CAN CONTRIBUTE TO BUILDING A MORE RELIABLE AND RESILIENT FUTURE WHETHER YOU'RE A SEASONED PROFESSIONAL OR JUST EMBARKING ON YOUR RELIABILITY JOURNEY THE CRE CERTIFICATION IS A VALUABLE ASSET THAT CAN UNLOCK NEW OPPORTUNITIES AND ENHANCE YOUR CONTRIBUTIONS TO RELIABILITY EXCELLENCE FAQs 1 WHAT ARE THE CAREER BENEFITS OF BECOMING A CERTIFIED RELIABILITY ENGINEER CRE INCREASED JOB OPPORTUNITIES CRE CERTIFICATION DEMONSTRATES EXPERTISE AND OPENS DOORS TO A WIDER RANGE OF POSITIONS IN RELIABILITY ENGINEERING QUALITY ASSURANCE AND PRODUCT DEVELOPMENT HIGHER EARNING POTENTIAL CERTIFIED PROFESSIONALS OFTEN COMMAND HIGHER SALARIES COMPARED TO THOSE WITHOUT CERTIFICATION IMPROVED CAREER ADVANCEMENT CRE CERTIFICATION CAN SIGNIFICANTLY ACCELERATE YOUR CAREER GROWTH WITHIN ORGANIZATIONS THAT VALUE RELIABILITY EXPERTISE ENHANCED PROFESSIONAL RECOGNITION ACHIEVING CRE CERTIFICATION ESTABLISHES YOU AS A RESPECTED PROFESSIONAL WITHIN THE RELIABILITY ENGINEERING COMMUNITY 2 WHAT ARE THE KEY SKILLS REQUIRED TO BECOME A CRE ANALYTICAL AND PROBLEM SOLVING SKILLS CREs MUST BE ABLE TO ANALYZE DATA IDENTIFY ROOT CAUSES OF FAILURES AND DEVELOP EFFECTIVE SOLUTIONS STATISTICAL AND MATHEMATICAL PROFICIENCY A STRONG UNDERSTANDING OF STATISTICAL METHODS AND MATHEMATICAL CONCEPTS IS ESSENTIAL FOR DATA ANALYSIS MODELING AND PREDICTION COMMUNICATION SKILLS CREs NEED TO EFFECTIVELY COMMUNICATE THEIR FINDINGS AND RECOMMENDATIONS TO TECHNICAL AND NONTECHNICAL STAKEHOLDERS TECHNICAL KNOWLEDGE A SOLID FOUNDATION IN ENGINEERING PRINCIPLES DESIGN AND MANUFACTURING PROCESSES IS CRUCIAL 4 PROJECT MANAGEMENT SKILLS CREs OFTEN MANAGE RELIABILITY PROJECTS REQUIRING EFFECTIVE PLANNING ORGANIZATION AND EXECUTION SKILLS 3 WHAT ARE THE COMMON CHALLENGES FACED BY RELIABILITY ENGINEERS

BALANCING COST AND RELIABILITY RELIABILITY ENGINEERS OFTEN FACE PRESSURE TO OPTIMIZE RELIABILITY WITHOUT SIGNIFICANTLY INCREASING COSTS LIMITED DATA AVAILABILITY GATHERING SUFFICIENT AND RELIABLE DATA CAN BE CHALLENGING ESPECIALLY FOR NEW PRODUCTS OR COMPLEX SYSTEMS RESISTANCE TO CHANGE IMPLEMENTING RELIABILITY IMPROVEMENTS MAY REQUIRE CHANGES IN ORGANIZATIONAL PROCESSES OR DESIGN PRACTICES WHICH CAN SOMETIMES BE MET WITH RESISTANCE KEEPING UP WITH TECHNOLOGICAL ADVANCEMENTS THE FIELD OF RELIABILITY ENGINEERING IS CONSTANTLY EVOLVING WITH NEW TECHNOLOGIES AND METHODOLOGIES STAYING ABREAST OF THESE ADVANCEMENTS IS CRUCIAL BUILDING CONSENSUS AND COLLABORATION WORKING EFFECTIVELY WITH DIVERSE TEAMS ACROSS DIFFERENT DISCIPLINES IS ESSENTIAL FOR SUCCESS IN RELIABILITY ENGINEERING 4 HOW CAN I FIND RESOURCES TO PREPARE FOR THE CRE CERTIFICATION EXAM PROFESSIONAL ORGANIZATIONS ASQ AMERICAN SOCIETY FOR QUALITY AND SRE SOCIETY FOR RELIABILITY ENGINEERING OFFER VALUABLE RESOURCES INCLUDING STUDY GUIDES PRACTICE EXAMS AND TRAINING PROGRAMS ONLINE COURSES NUMEROUS ONLINE PLATFORMS PROVIDE COMPREHENSIVE COURSES AND STUDY MATERIALS SPECIFICALLY DESIGNED FOR CRE CERTIFICATION PREPARATION BOOKS AND TEXTBOOKS SEVERAL BOOKS AND TEXTBOOKS COVER RELIABILITY ENGINEERING PRINCIPLES AND METHODOLOGIES PROVIDING A SOLID FOUNDATION FOR EXAM PREPARATION MENTORSHIP SEEKING GUIDANCE FROM EXPERIENCED CREs OR RELIABILITY PROFESSIONALS CAN OFFER INVALUABLE INSIGHTS AND PRACTICAL ADVICE 5 WHAT ARE SOME EXAMPLES OF INDUSTRIES WHERE RELIABILITY ENGINEERS ARE IN HIGH DEMAND AEROSPACE AND DEFENSE HIGH RELIABILITY IS PARAMOUNT IN THESE INDUSTRIES DUE TO SAFETY CONCERN AND MISSIONCRITICAL APPLICATIONS AUTOMOTIVE ENSURING VEHICLE RELIABILITY AND SAFETY IS ESSENTIAL FOR CUSTOMER SATISFACTION AND BRAND REPUTATION HEALTHCARE RELIABILITY ENGINEERING PLAYS A VITAL ROLE IN MEDICAL DEVICE DESIGN AND MANUFACTURING ENSURING PATIENT SAFETY AND TREATMENT EFFICACY ENERGY AND UTILITIES MAINTAINING POWER GENERATION AND DISTRIBUTION INFRASTRUCTURE REQUIRES ROBUST RELIABILITY TO ENSURE CONTINUOUS SERVICE ELECTRONICS AND SEMICONDUCTOR THE HIGHTECH INDUSTRY RELIES ON RELIABILITY ENGINEERS TO 5 ENSURE THE PERFORMANCE AND LONGEVITY OF ELECTRONIC COMPONENTS AND SYSTEMS

THE RELIABILITY ENGINEER PRIMER THE RELIABILITY ENGINEER PRIMER INTRODUCTION TO PRODUCT DESIGN AND DEVELOPMENT FOR ENGINEERS DESIGN OF ELECTROMECHANICAL PRODUCTS DESIGN OF ELECTROMECHANICAL AND COMBINATION PRODUCTS SYSTEM SAFETY, MAINTAINABILITY, AND MAINTENANCE FOR ENGINEERS A GUIDE FOR IMPLEMENTING TOTAL QUALITY MANAGEMENT 1979 PROCEEDINGS ANNUAL RELIABILITY AND MAINTAINABILITY SYMPOSIUM TECH NOTES ASME ENGINEER'S DATA BOOK SYSTEM ENGINEERING MANAGEMENT PROCEEDINGS OF THE ... ANNUAL SYMPOSIUM, SAFE ASSOCIATION ELEMENTS OF THERMAL-FLUID SYSTEM DESIGN CHARTERED MECHANICAL ENGINEER PROCEEDINGS, AAMI ... ANNUAL MEETING INTERNATIONAL AEROSPACE ABSTRACTS INFOR STANDARDS ENGINEERING INDUSTRIAL QUALITY CONTROL THE ELECTRICAL WORLD BRYAN DODSON ROBERT A. DOVICH DR. ALI JAMNIA ALI JAMNIA ALI JAMNIA B.S. DHILLON THEODORE CROSIER CLIFFORD MATTHEWS BENJAMIN S. BLANCHARD SAFE ASSOCIATION (U.S.). SYMPOSIUM LOUIS C. BURMEISTER ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION

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INTRODUCTION TO PRODUCT DESIGN AND DEVELOPMENT FOR ENGINEERS PROVIDES GUIDELINES AND BEST PRACTICES FOR THE DESIGN DEVELOPMENT AND EVALUATION OF ENGINEERED PRODUCTS

CREATED TO SERVE FOURTH YEAR UNDERGRADUATE STUDENTS IN ENGINEERING DESIGN MODULES WITH A REQUIRED PROJECT THE TEXT COVERS THE ENTIRE PRODUCT DESIGN PROCESS AND PRODUCT LIFE CYCLE FROM THE INITIAL CONCEPT TO THE DESIGN AND DEVELOPMENT STAGES AND THROUGH TO PRODUCT TESTING DESIGN DOCUMENTATION MANUFACTURABILITY MARKETING AND SUSTAINABILITY REFLECTING THE AUTHOR S LONG CAREER AS A DESIGN ENGINEER THIS TEXT WILL ALSO SERVE AS A PRACTICAL GUIDE FOR STUDENTS WORKING ON THEIR CAPSTONE DESIGN PROJECTS

DESIGN DEVELOPMENT AND LIFE CYCLE MANAGEMENT OF ANY ELECTROMECHANICAL PRODUCT IS A COMPLEX TASK THAT REQUIRES A CROSS FUNCTIONAL TEAM SPANNING MULTIPLE ORGANIZATIONS INCLUDING DESIGN MANUFACTURING AND SERVICE INEFFECTIVE DESIGN TECHNIQUES COMBINED WITH POOR COMMUNICATION BETWEEN VARIOUS TEAMS OFTEN LEADS TO DELAYS IN PRODUCT LAUNCHES WITH LAST MINUTE DESIGN COMPROMISES AND CHANGES THE PURPOSE OF DESIGN OF ELECTROMECHANICAL PRODUCTS A SYSTEMS APPROACH IS TO PROVIDE A PRACTICAL SET OF GUIDELINES AND BEST PRACTICES FOR DRIVING WORLD CLASS DESIGN DEVELOPMENT AND SUSTAINABILITY OF ELECTROMECHANICAL PRODUCTS THE INFORMATION PROVIDED WITHIN THIS TEXT IS APPLICABLE ACROSS THE ENTIRE SPAN OF PRODUCT LIFE CYCLE MANAGEMENT FROM INITIAL CONCEPT WORK TO THE DETAILED DESIGN ANALYSIS AND DEVELOPMENT STAGES AND THROUGH TO PRODUCT SUPPORT AND END OF LIFE IT IS INTENDED FOR PROFESSIONAL ENGINEERS DESIGNERS AND TECHNICAL MANAGERS AND PROVIDES A GATEWAY TO DEVELOPING A PRODUCT S DESIGN HISTORY FILE DHF AND DEVICE ASTER RECORD DMR THESE TOOLS ENABLE DESIGN ENGINEERS TO COMMUNICATE A PRODUCT S DESIGN MANUFACTURABILITY AND SERVICE PROCEDURES WITH VARIOUS CROSS FUNCTIONAL TEAMS

THE SECOND EDITION OF THIS WORK NOW WITH THE EXPANDED TITLE OF DESIGN OF ELECTROMECHANICAL AND COMBINATION PRODUCTS COVERS THE DESIGN AND DEVELOPMENT OF ELECTROMECHANICAL PRODUCTS UPDATED THROUGHOUT TO FOCUS NOT ONLY ON AN AGILE SYSTEMS APPROACH BUT ALSO ITS APPLICATION TO DISPOSABLES AND CONSUMABLES PROVIDING A PRACTICAL SET OF GUIDELINES AND THOROUGH EXAMINATION OF BEST PRACTICES THIS BOOK FOCUSES ON CUTTING EDGE RESEARCH ON SUSTAINABILITY OF ELECTROMECHANICAL AND

COMBINATION PRODUCTS KEY FEATURES PRESENTS THE DESIGN DEVELOPMENT AND LIFE CYCLE MANAGEMENT OF ELECTROMECHANICAL AND COMBINATION PRODUCTS PROVIDES A PRACTICAL SET OF GUIDELINES AND BEST PRACTICES FOR WORLD CLASS DESIGN EXPLAINS THE ROLE OF COSTING AND PRICING IN PRODUCT DESIGN COVERS DESIGN FOR X AND ITS ROLE IN PRODUCT LIFE CYCLE MANAGEMENT EXAMINES THE DYNAMICS OF CROSS FUNCTIONAL DESIGN AND PRODUCT DEVELOPMENT TEAMS DEVELOPS DHF AND DMR AS TOOLS AND INHERENT COMPONENTS OF CONFIGURATION MANAGEMENT INCLUDES NUMEROUS REAL WORLD EXAMPLES OF ELECTROMECHANICAL AND COMBINATION PRODUCT DESIGNS THIS BOOK IS INTENDED FOR SCIENTISTS ENGINEERS DESIGNERS AND TECHNICAL MANAGERS AND PROVIDES A GATEWAY TO DEVELOPING A PRODUCT S DESIGN HISTORY FILE DHF AND DEVICE MASTER RECORD DMR THESE TOOLS ENABLE THE DESIGN TEAM TO COMMUNICATE A PRODUCT S DESIGN MANUFACTURABILITY AND SERVICE PROCEDURES WITH VARIOUS CROSS FUNCTIONAL TEAMS

THE SAFETY MAINTAINABILITY AND MAINTENANCE OF SYSTEMS HAVE BECOME MORE IMPORTANT THAN EVER BEFORE GLOBAL COMPETITION AND OTHER FACTORS ARE FORCING MANUFACTURERS TO PRODUCE HIGHLY SAFE AND EASILY MAINTAINABLE ENGINEERING SYSTEMS THIS MEANS THAT THERE IS A DEFINITE NEED FOR SAFETY MAINTAINABILITY AND MAINTENANCE PROFESSIONALS TO WORK CLOSELY DURING THE SYSTEM DESIGN AND OTHER PHASES OF A PROJECT AND THIS BOOK WILL HELP WITH THAT SYSTEM SAFETY MAINTAINABILITY AND MAINTENANCE FOR ENGINEERS PRESENTS IN A SINGLE VOLUME WHAT ENGINEERS WILL NEED WHEN DESIGNING SYSTEMS FROM THE FIELDS OF SAFETY MAINTAINABILITY AND MAINTENANCE OF SYSTEMS WHEN THEY HAVE TO ALL WORK TOGETHER ON ONE PROJECT AND IT PROVIDES INFORMATION THAT THE READER WILL REQUIRE NO PREVIOUS KNOWLEDGE TO UNDERSTAND ALSO OFFERED ARE SOURCES IN THE REFERENCE SECTION AT THE END OF EACH CHAPTER SO THAT THE READER IS ABLE TO FIND FURTHER INFORMATION IF NEEDED FOR READER COMPREHENSION EXAMPLES ALONG WITH THEIR SOLUTIONS ARE INCLUDED AT THE END OF EACH CHAPTER THIS BOOK WILL BE USEFUL TO MANY PEOPLE INCLUDING DESIGN ENGINEERS SYSTEM ENGINEERS SAFETY SPECIALISTS MAINTAINABILITY ENGINEERS MAINTENANCE ENGINEERS ENGINEERING MANAGERS GRADUATE AND SENIOR UNDERGRADUATE STUDENTS OF ENGINEERING RESEARCHERS AND INSTRUCTORS OF SAFETY

MAINTAINABILITY AND MAINTENANCE AND ENGINEERS AT LARGE

DIVIDED INTO 22 SECTIONS THIS POCKET SIZED VOLUME IS AN EXHAUSTIVE QUICK REFERENCE OF UP TO DATE ENGINEERING DATA AND RULES

SYSTEM ENGINEERING IS THE APPLICATION OF SCIENTIFIC AND ENGINEERING EFFORTS TO TRANSFORM A BUSINESS NEED INTO A DEFINED SYSTEM CONFIGURATION THROUGH THE TOP DOWN PROCESS OF REQUIREMENTS DEFINITION FUNCTIONAL ANALYSIS ALLOCATION SYNTHESIS DESIGN OPTIMIZATION TEST AND EVALUATION

NUMEROUS DESIGN ORIENTED END OF CHAPTER PROBLEMS ALSO PROVIDE REALISTIC SETTINGS FOR APPLICATION OF THE MATERIAL DISCUSSED

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ENGINEER PRIMER ASSESSMENT, WE WILL EXPLORE THE INTRICACIES OF THE PLATFORM, EXAMINING ITS FEATURES, CONTENT VARIETY, USER INTERFACE, AND THE OVERALL READING EXPERIENCE IT PLEDGES.

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