



TRAINING COURSE LIST

At **EFFECTIVE HUMAN INTERVENTION** we believe in making an impact with every training intervention. We work with you to address your challenges, improving workplace employability & sustainable competitive advantage.

Our diverse course selection is always in line with current legislation, is top quality, industrially relevant, short, practical and covers a wide range which includes Engineers, Maintenance Managers, Safety Practitioners, Artisans, Millwrights, Electricians, Contractors, Planners, Technical Superintendents, OHS Managers and Supervisors to name a few, across all industries.

COMPLIANCE TRAINING

Compliance training refers to the process of educating employees on laws and regulations that apply to their day-to-day job responsibilities. It guides and informs employees on the laws and regulations pertaining to their industry or specific job function, ensuring a safe working environment.

TRAINING COURSES USING ARTIFICIAL INTELLIGENCE

- Microsoft Project Basic using AI
- Microsoft Project Intermediate to Advances using AI
- Project Technical Report Writing using AI
- Project Management for Engineers & Technical Professionals using AI

COMPUTER COURSES

- Advance Excel with Reporting & Applications
- Basic Computer Literacy
- G-Suite
- Integrated MS Projects & MS Excel
- Microsoft PowerPoint
- Microsoft Word Intro, Intermediate, Advanced
- MS Excel Intro, Intermediate, Advanced
- MS Excel with PowerPivot & Dashboard
- MS Project Advanced using S-Curve for Project Power BI
- Power Pivots

WORKPLACE SAFETY / REGULATIONS & COMPLIANCE

- Accident & Incident Investigation
- Arc Flash Awareness
- Basic Principles of Protection
- Construction Regulations
- Driven Machine Regulations
- Electrical Installation Regulations
- Electrical Machine Regulations
- Electrical Safety Awareness for Artisans working on High Voltage Mining Machinery
- General Machine Regulations
- General Safety Regulations
- Hazardous Area Concepts
- Hazardous Identification & Risk Assessment (HIRA)
- Isolation & Legal Liability
- Lockout Procedures
- LV Cable Fault Location
- LV MCC Maintenance Testing & Condition Based Monitoring
- LV MV Line Construction Aerial Bundle Conductor
- Maintenance of Electrical Networks: Substations – NRS 089
- Management of Maintenance of MV Switchgear up to 22kv
- Medium/High Voltage Switching
- MV 11-33kV Cable Accessories
- MV Substation Maintenance, Testing & Condition Based Monitoring
- MV Substation Maintenance, Testing & Condition Based Monitoring
- MV Switchgear Maintenance
- MV/LV Protection Theory & Practical Applications
- Occupational Health & Safety Act
- ORHVS
- ORLVS
- Pressure Equipment Regulations
- SANS329
- Site Safety Awareness
- Standby Diesel Generators & UPS Systems
- Substation Authorised Persons
- Substation Entry
- Substation Responsible Persons
- Safe Work Procedures & Standard Operating Procedure Documentation

MAINTENANCE

- Enterprise Asset Management
- Machinery Failure Analysis & Prevention
- Maintenance Best Practices
- Maintenance Planning & Scheduling
- Maintenance Risk & Reliability Management
- Operational Equipment Effectiveness
- Preventative & Predictive Maintenance
- Reliability Centered Maintenance
- Total Productive Maintenance
- Zero Breakdown Maintenance Strategies

TRAINING COURSE LIST

ELECTRICAL

- Advanced Electrical Systems
- Best Practice for Management of Transformer Operation & Maintenance
- Cable Selection, Installation & Fault Finding
- Calculation of Electrical System Fault Levels
- Distribution Assemblies
- Electrical & Mechanical Isolation Practice
- Electrical Fault Analysis
- Fundamentals & Implementation of Power System Protection
- HV Power Transformer Theory
- HV Power Transformer Theory, Maintenance, Oil Testing & Condition Based Monitoring
- Partial Discharge
- Reading & Understanding Electrical Drawings
- Safety Earthing Bonding & Lightning
- SANS 10142-1 Ed 3
- SANS 10142-2
- Substation Maintenance
- Thermographic Training

MECHANICAL

- Air-Conditioning & Refrigeration
- Automotive Air-Conditioning
- Boiler Operation & Maintenance
- Centrifugal Pump Maintenance
- Compressor Maintenance
- Condition Based Monitoring
- Emergency Conveyor Belt Splicing
- Flow Control for Instrumentation Practitioners
- Gearbox Design, Operation, Maintenance & Troubleshooting
- Hydraulics - Fundamental & Pneumatic
- Insulation Oil Filtration
- Insulation Oil Handling & Transportation
- Insulation Oil Sampling & Testing
- Machinery Failure Analysis & Prevention
- Mechanical Seals, Application, Operation & Maintenance
- Mechanical Systems & Fault Finding
- Pump Operations & Maintenance

PRODUCTION & LEAN MANUFACTURING

- 20 Keys to Workplace Improvement
- 5 Day Lean (World Class Manufacturing)
- 5S & Role of Kaizen
- 5Why & 8D Problem Solving
- FMEA (Failure Mode & Effects Analysis)
- ISO9001 | 14001 | 18001 | 45001 | 50001
- Lean Manufacturing & Value Stream Mapping
- Lean Practitioner
- Lean Six Sigma Black Belt
- Lean Six Sigma Green Belt
- Lean Six Sigma Yellow Belt
- Problem Analysis & Solving Methods
- Process Approach
- Root Cause Analysis
- Root Cause Analysis & Incident Investigation
- SMED
- Total Quality Management
- Value Stream Mapping

AUTOMATION & INSTRUMENTATION

- AC Variable Speed Drives
- Flow Control for Instrumentation Practitioners
- Introduction to Variable Speed Drives
- Master Drives Vector Control Maintenance Course
- Profibus Systems Course
- SIMOCODE DP Course
- SIMOCODE PRO Course
- Sinamics Drives Maintenance Course

- **Siemens Step 7 with PLC S7 300 and S7 400 (Classic Siemens Courses)**
 - Introduction to PLC
 - RCL-PLC-ONE
 - RCL-PLC-TWO

- **Siemens TIA Portal with PLC S7 1200 and S7 1500**
 - Introduction to PLC
 - TIA PORTAL - S7 1200 PLC Service & Maintenance Basic Course
 - TIA PORTAL - TIA PORTAL with S7-1500 Service & Maintenance Module 1

GENERAL

- Anger Management
- Assertiveness & Interpersonal Skills
- Business Communications
- Business Writing
- Dealing with Difficult People
- Emotional Intelligence
- Finance for non-Financial Managers
- Innovation & Creativity
- Report Writing
- Scientific Report Writing
- Stress Management
- Technical Report Writing
- Time Management & Prioritization

TRAINING COURSE LIST

MANAGEMENT & LEADERSHIP

- Assertiveness Skills for Managers
- Coaching & Mentoring
- Diversity Management
- Emotional Intelligence
- Engineering Leadership
- First Line Management
- Management Skills for Engineers & Technical Professionals
- Management Skills for Maintenance Supervisors
- Managing Conflict
- Problem Solving & Decision Making
- Self-Mastery in the Workplace
- Supervisory Development Programme
- Supervisory Skills
- Transitioning from Technical Professional to Manager & Leader
- Women in Leadership

EWSETA

ACCREDITATION No: 17-QA/Acc/0603/11

SKILLS PROGRAMMES

- 03/SP/20230534/0001 – Demonstrate knowledge and understanding of operating regulation of high voltage
- 03/SP/20230912/0007 – Install, Operate & Inspect Medium Voltage

UNIT STANDARDS – EW SETA

- 242766 - Demonstrate knowledge and understanding of operating regulations for high voltage
- 259204 - Operate on Medium Voltage networks
- 259205 - Inspect, test and maintain Medium/High Voltage earthing systems
- 259206 - Install/replace medium/high voltage equipment and hardware
- 259207 - Inspect, record and report condition of Medium/High Voltage station apparatus and related equipment

MERSETA

**ACCREDITATION No: 17-QA/Acc/0603/
QUALIFICATION (MERSETA)**

**SAQA ID 58779 PRODUCTION TECHNOLOGY
NQF LEVEL 4**

Purpose: The combination of learning outcomes that comprise this qualification will provide the qualifying learner with vocational knowledge and skills appropriate to the context of production technology. This qualification provides learners with the range of learning and skills required to be able to perform a series of activities to support manufacturing, engineering, and technology processes. Learners will acquire a range of skills in the identification of production parameters in manufacturing, engineering and technology industries and basic strategies to achieve them.

The qualifying learner will be able to:

- Measure, control and improve factors influencing productivity.
- Contribute to budgeting processes in an operational unit to optimise resources.
- Solve operational problems in a production process.
- Promote, implement, and maintain procedures that support quality assurance and control.

SKILLS PROGRAMMES

SP 0880/14-17 – Logistics and Planning Phase 4
SP 0886/14-17 – Project Budget Supervisory Skills
SP 0888/14-17 – Production Coordinating Skills
SP 0889/14-17 – Production Quality Assurance Skills
SP 0964/16-17 – Warehouse and Logistic Planner

CONTINUING PROFESSIONAL DEVELOPMENT (CPD) refers to continuing education and training. CPD also refers to the systematic maintenance, improvement and broadening of knowledge and skills and the development of the necessary personal qualities for the execution of professional duties throughout a person's career. It is the learning and development that takes place after completion of educational studies, and by which registered persons maintain and develop competencies to continue to perform their roles efficiently through further training and experiences. **ECSA is recognised by SAQA as a Professional Body ID: 623.** CPD registered courses can be submitted on your WSP. **EHI's courses are accredited through SAAMA for approval of CPD activities which will automatically be accepted by ECSA.**



South African Institute of
Occupational Safety and Health
Corporate Member

Recognised for Continuing
Professional Development
(CPD) by SAAMA in accordance
with ECSA guidelines



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ENERGY AND WATER SECTOR
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