

## THE TECHNOLOGY CENTRE

The Technology Transfer Licensing and Commercialisation Centre, a Strategic Unit of Harare Institute of Technology, is offering the following intensive short-term courses for continuous professional development to interested corporate organisations, entrepreneurs, professionals and semi-skilled personnel. You are awarded a proficiency related certificate at the end of each training based on performance merit. Course fees are payable either in foreign currency or in local currency (RTGS) based on the prevailing interbank ASK rate.

Field	Course Title	Fees (include teas & lunches (US\$))	Session Period	Maximum number of students
Engineering Design	Computer Aided Design & Draughting (CADD)	500	5 days	10
	Computer Aided Design with Pro-Eng	500	5 days	10
	Autodesk Inventor	500	5 days	10
	Autodesk Inventor Parametric Modelling	500	5 days	10
	ArchCAD	500	5 days	10
	Finite Element Analysis with ANSYS	500	5 days	10
Welding Techniques	Basic Welding Technology (Arc/Spot/Gas)	400	5 days	10
	Tungsten Inert Gas Welding (TIG/GTAW)	400	5 days	10
	Metal Inert Gas Welding (MIG/GMAW/CO <sub>2</sub> )	400	5 days	10
	Coding in Tungsten Inert Gas Welding (TIG/GTAW)	500	5 days	10
	Coding in Metal Inert Gas Welding (MIG/GMAW/CO <sub>2</sub> )	500	5 days	10
Manufacturing Technology	Product Development & Manufacturing Tooling Technology	1000	10 days	10
	Computer Numerically Controlled Machining (CNC)	500	5 days	10
	Computer Assisted Gear Hobbing	500	5 days	10
	Computer Aided Manufacturing (CAD/CAM/CAE)	1000	10 days	20
	Work Measurement	700	5 days	20
	Problem Solving and Decision Making	500	2 days	20
Plant Maintenance	Preventive/Planned Maintenance	500	5 days	20
	Facilities and Workplace Design	600	5 days	20
	Reliability Centered Maintenance	500	5 days	20
	Total Productive Maintenance	500	5 days	20
	Refrigeration & Air Conditioning Servicing and Repair	700	10 days	20
	Centrifugal Pump Design & Applications	500	5 days	20
	Applied Hydraulics & Electro-Pneumatics	400	5 days	20
	White Belt Lean Six Sigma for Process Improvement	300	1 day	20

Operational Excellency	Yellow Belt Lean Six Sigma for Process Improvement	600	3 days	20
	Green Belt Lean Six Sigma for Process Improvement	1000	10 days	20
	Black Belt Lean Six Sigma for Process Improvement	2000	20 days	20
	Taguchi Design of Experiments for Robust Design	400	5 days	20
	Design of Experiments with Design Expert software	500	5 days	20
Quality	Destructive Testing Techniques	300	3 days	10
	Non-destructive Testing Techniques – Level 1	400	5 days	10
	Non-destructive Testing Techniques – Level 2	600	10 days	10
	Total Quality Management	400	5 days	20
ICT	Database Design	500	10 days	20
	Introduction to Visual Basic .Net Programming	600	10 days	20
	Applied Project Management in an Information Technology Environment	500	5 days	20
	C++ Programming	600	10 days	20
	Introduction to Java Programming	500	10 days	20
	Linux Administration I	300	3 days	20
Information Security	Introduction to Cyber Security	300	2 days	20
	Incident Response and Computer Forensics	300	2 days	20
	Forensics: Incidents & Incident Response Methodology	300	2 days	20
	Forensics: Pre-incident Preparation, Detection & Post Detection	300	2 days	20
	Computer Forensic Investigations	400	2 days	20
	Computer Forensic Data Collection	400	2 days	20
	Computer Forensic Data Analysis Techniques & Reporting	300	2 days	20
	Mobile Phone Forensics	400	2 days	20
	Information Security & Risk Management	300	2 days	20
	Penetration Testing & Ethical Hacking	300	2 days	20
	Python for Information Security	300	2 days	20
Bio-pharmacy	Viral Vaccine Manufacture	1500	5 days	10
	Commercialization of New Biological Drugs	300	1 day	20
	Bio-pharmaceutical Analysis	1000	3 days	10
	Downstream Bio-pharmaceutical Processes Design	1100	3 days	10
	Navigating a Changing Pharmaceutical Regulatory System	500	3 days	10
	Fermentation Engineering	1100	3 days	10
	Formulation & Stabilization of Bio therapeutics	1800	3 days	10
Bio-technology	Cell Culture Bioreactors for MAb Production	1100	3 days	10
	Fundamentals of Mammalian Cell Line Development	1000	3 days	20
	Microbial Contamination Control in Bioprocessing Operations	800	4 days	20
	Biosafety Elements and Biorisk Management	800	5 days	20
	Biomanufacturing	800	5 days	20

Energy	Energy Efficiency Enhancement in Industry	600	5 days	10	
	Solar Photovoltaics (PV) Systems	350	5 days	10	
	Thermal Use of Solar Energy	300	3 days	10	
	Hybrid Renewable Energy Systems	500	3 days	10	
	Biogas Plant Design and Construction	700	5 days	15	
Electronics	Programmable Logic Controllers (Siemens Series 5&7 PLCs)	400	5 days	10	
	AC Drives	400	5 days	10	
	Digital Electronics	400	5 days	15	
	Instruments & Calibration	500	5 days	10	
	Digital Control Systems Design & Automation	500	5 days	10	
	Organizational Transformation and Change Management	600	3 days	20	
	Enterprise Risk Management	500	3 days	20	
	Warehousing Management	500	2 days	10	
	Projects Team Leadership and Goal Getting	400	2 days	20	
	Technopreneurship Development	500	5 days	10	
	Strategic Leadership	1000	5 days	20	
	Project Management, Monitoring and Evaluation	500	5 days	10	
	Finance for Project Managers	300	3 days	10	
	Business Proposal Writing	500	5 days	10	
	Business Ethics and Corporate Governance	500	5 days	10	
	New Venture Creation & Entrepreneurship	500	5 days	10	
		Innovation and Business Incubation	300	2 days	10
Team Building and Conflict Management		300	2 days	10	
Intellectual Property Management		300	2 days	10	
Sales and Marketing Management		300	3 days	10	
Human Resources and Strategy Consulting		300	3 days	10	
Auditing services, Cash flow Statements and preparation of financial statements		500	4 days	10	
Negotiating and contracting in Procurement and Supply for Technicians and Engineers		300	3 days	10	
Real Estate Management		400	3 days	10	
Research proposal writing training		300	3 days	10	
Business Management		Financial Management for Engineers	400	3 days	20
		Digital Marketing	1000	5 days	20
		Technology & Innovation Management	1000	5 days	20
	Electronic Commerce Overview	300	2 days	20	
	Decision Support Systems	800	5 days	20	
	Enterprise Resources Planning	1000	5 days	20	
	Non-thermal Technologies	800	5 days	20	
	Food Hygiene	500	5 days	20	
	Water Microbiology	500	5 days	20	
	Fermented Dairy Products	500	5 days	20	

Food Processing	Solar Drying of Fruits	400	5 days	20
	Solar Drying of Vegetables	300	3 days	20
	Poultry Processing Technology	300	3 days	20
	Sorghum Processing Technology	300	5 days	20
	Vegetable Oil Expression	400	5 days	20
	Food Engineering	1000	5 days	20
	Food Chemistry	800	5 days	20
	Food Quality Assurance	700	5 days	20
	Food Laboratory Techniques	400	5 days	20
Chemical Processing	Industrial Process Plant Technology	800	5 days	20
	Minerals Processing & Extractive metallurgy	500	5 days	20
	Paper Manufacture	500	5 days	20
	Water Treatment Processing	600	5 days	10
	Chemical Processing Engineering	600	5 days	10
	Corrosion Protection Techniques	600	5 days	10
	Introduction to Portable Water Treatment	600	5 days	10
	Practical Distillation Technology	1000	3 days	10
Safety, Health and Environment	Anaerobic and Biological Processes of Waste	600	5 days	10
	Applied Environmental Informatics	600	5 days	10
	Wetlands and Catchment Management	600	5 days	10
	Environmental Legislations & Auditing	600	5 days	10
	Environmental Impact Assessment	600	5 days	10
	Safety, Health & Environment (SHE)	600	5 days	10
	Evaluating Sustainability	600	5 days	10
	Health, Sanitation and Wastewater Treatment	600	5 days	10
	Waste Composting	600	5 days	10
	Waste Disposal and Resource Recovery	600	5 days	10
	HAZOP	600	5 days	10
	Fundamentals of Process Safety	600	5 days	10
	Hazard Study Awareness	300	1 day	10
	Human factors in Health and Safety	500	2 days	10
	Process Safety Management	1000	5 days	10
	Carbon Foot-printing	300	2 days	10
	Occupational Health	300	2 days	10
	Risk Assessment Techniques	500	3 days	10
	Safety Auditing	400	2 days	10
	Applied Mathematics	Statistical Data Analysis using SPSS, R, Minitab, Matlab, N VIVO and Excel	500	10 days
N VIVO		200	2 days	20
Excel		200	2 days	20
Matlab		200	2 days	20
Statistics	SPSS	200	2 days	20
	Minitab	200	2 days	20
	R	200	2 days	20

**Outreach sessions are opened as per group request.**

For further details contact: **Reception on 0242 741 434 or 04 741 427/8 ext.n 2250 or send e-mail to techtrans@hit.ac.zw or visit www.hit.ac.zw.**

***NB: Customised courses that are not listed above can be arranged subject to customer request. We also provide technical consultancy services in a number of fields related to the above.***

**Below Are Our Banking Details:**

**1. Harare Institute of Technology  
CBZ Bank Local Currency Account (RTGS\$)  
Sapphire Branch  
A/c #: 02420583120037**

**2. Harare Institute of Technology  
Stanbic Nostro Account (USD)  
Southerton Branch  
A/c #: 9140003266809  
Swift Code: SBICZWHX**