



# General Telecommunication Institute (GTI)

## Possibilities & Training Activities

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# The General Telecommunication Institute's Training Services

## Background

- The GTI has been established in 1984
- **1984 -1999** –the GTI provides Study of diploma (**2 years**) after the secondary school (scientific section) or technical secondary school.
- Since the year **2000** the GTI has changed it's training policy to carry out different technical , administrative financial and commercial refreshing training courses to meet the requirements of the labor market.



# GTI MISSION

**Providing training and educational services in the field of telecommunication and information technology through a highly efficient training system that meets the needs of beneficiaries and contributes to achieving development.**



# GTI VISION

**Leadership and excellence in the field of training, qualification and capacity building in the field of Telecommunication and information technology and dissemination of digital knowledge at the national and regional levels.**



## The General Telecommunication Institute (GTI)

### Local & International Relationship:

- Exclusive Agent for CISCO Academy in Yemen.
- Member of **MICROSOFT, ORACLE, CISCO & ESRI(GIS) Academies.**
- Authorized Test Center for Pearson VUE (Virtual University Enterprise) & Prometric, (Microsoft ,Oracle , Cisco ,GIS , CompTIA,.....)
- Authorized Centre for **ICDL** 'Training & Testing'
- Member of the International Telecommunication Institute (**ITU**)
- Member of the Arab Regional Network of Human Resources of the International Telecommunication Institute (ITU).
- Member of the Arab Centre of Excellency
- Member of the Union of the Yemeni Training & Qualification Institutes and Centres.



# Branches of GTI

- Beside the Headquarters, the GTI has **14** branches in the following cities :
  - **Al-Asbahi Residential Area Sana'a** (new branch)
  - **Aden**
  - **Al- Mukalla**
  - **Al-Hudaidah**
  - **Taiz**
  - **Ibb**
  - **Dhamar**
  - **Marib**
  - **Hajjah**
  - **Saiyun**
  - **Al-Baida**
  - **Amran**
  - **Al-Mahweet**
  - **Sada**



# ICDL Certified Centers

There are **12** ICDL GTI - Certified Branches Centers:-

- **Sana'a**
- **Aden**
- **Taiz**
- **Al-Hodaidah**
- **Hajjah**
- **Amran**
- **Saiyun**
- **Al- Mukalla**
- **Dhamar**
- **Al-Baida**
- **Ibb**
- **Sada**



## GTI Infrastructural Training Availabilities

- Qualified , certified and efficient training staff.
- Well equipped different technical labs for all specializations in field of **telecommunication and information technology** (Digital Transmissions, Switches, Telephone Outside Plants Networks & Optical Fiber, Power & Air- Conditioning , Computer Networking Cisco , Microsoft, Oracle , GIS, ICDL , Programming & Maintenance of Smart Phones... etc)
- Grandstand (300 Seats) , Halls and Classrooms



# Training Activities

## (1) Section of

## Transmission & Telephone Outside Plants Network



## ❖ Labs of Transmission & Telephone Outside Plants Networks Section

	<b>Lab's Name</b>		<b>Lab's Name</b>
1	Fundamentals of Digital Transmission	1	Measurements of Copper Cable Faults
2	PDH & SDH	2	Measurements of Telephone Network
3	OTN (Optical Transport Network)	3	Telephone Network Planning (Manual & Computerized)
4	DWDM (Dense Wavelength Division Multiplexing)	4	Optical Fibre Network
5	ROADM (Reconfigurable Optical Add / Drop Multiplexer)	5	FTTH (Fibre To The Home)
6	Digital Microwave		
7	4G & 5G System (Access & Core)		
8	MPLS (Multiprotocol Label Switching)		

# a) Transmission Programmes



	Training Course's Name		Training Course's Name
1	Pulse Code Modulation (PCM)	14	Operation & Maintenance of CDMA- BTS
2	Plesiochronous Digital Hierarchy (PDH)	15	CDMA Network Planning
3	Principles of Asynchronous Transport Module (ATM)	16	Principles of Dense Wavelength Division Multiplexing (DWDM)
4	Principles of Synchronous Digital Hierarchy (SDH)	17	Operation & Maintenance of Digital Microwaves
5	Systems of SDH	18	Operation & Maintenance of Earth Stations
6	Operation & Maintenance of SDH (ALCATEL – French System)	19	Systems of Rural Telecommunications
7	Operation & Maintenance of SDH1 (Huawei – Chinese System)	20	Operation & Maintenance of NEC system (Rural Telecom)
8	Operation & Maintenance of SDH2 (Huawei-Chinese System)	21	Operation & Maintenance of AFC system (Rural Telecom)
9	Operation & Maintenance of SDH (Fujitsu-Japanese System)	22	Operation & Maintenance of HONE1(1 <sup>st</sup> level) system (Rural Telecom)
10	Transmission Measuring Devices	23	Operation & Maintenance of HONET2(2 <sup>nd</sup> level) system (Rural Telecom)
11	Principles of Code Division Multiple Access (CDMA)	24	Operation & Maintenance of PMNS system (Rural Telecom)
12	Operation & Maintenance of CDMA - BSS	25	Operation & Maintenance of INTRACOM system (Rural Telecom)
13	Operation & Maintenance of CDMA - BSC	26	Operation & Maintenance of L3 system (Rural Telecomm)



## b) Telephone Outside Plants Programmes

	<b>Training Course's Name</b>		<b>Training Course's Name</b>
<b>1</b>	<b>Installation &amp; Maintenance of Telephone Lines</b>	<b>7</b>	<b>Planning of Telephone Networks (by using computer)</b>
<b>2</b>	<b>Operation &amp; Maintenance of Subscribers Telephone Sets</b>	<b>8</b>	<b>Fundamentals of the Optical Fibre Networks</b>
<b>3</b>	<b>Copper Cables Networks</b>	<b>9</b>	<b>Optical Fibre Networks ( advanced)</b>
<b>4</b>	<b>Measuring the Faults of Copper Cables</b>	<b>10</b>	<b>Measuring the Faults of Optical Fibres Cables</b>
<b>5</b>	<b>Detection of the Cables Paths</b>	<b>11</b>	<b>Precautionary Maintenance of the Telephone Network</b>
<b>6</b>	<b>Planning of Telephone Networks (manually)</b>	<b>12</b>	<b>FTTx</b>



# Training Activities

## (2) Section of

# Telephone Exchanges & Electrical Power



## • Labs of Telephone Exchanges & Power Section

	Lab's Name		Lab's Name
1	Switching Fundamentals	1	Fundamentals of Air-Conditioning
2	Data Transmission	2	Power Electronics
3	OCB -283 ( French System)	3	Rectifiers
4	C & CO8 ( Chinese System)	4	Air-Conditioning
5	MSAN (Multiservice Access Network)	5	Electrical Power
6	GPON (Gigabit Passive Optical Network)		



## a) Telephone Exchanges Programmes

	Training Course 's Name		Training Course's Name
<b>1</b>	<b>Introduction to OCB-283 Switching</b>	<b>10</b>	<b>Presentation on C&amp;CO8 Switching</b>
<b>2</b>	<b>Maintenance of C&amp;CO8 Switching</b>	<b>11</b>	<b>Operation of OCB-283 Switching</b>
<b>3</b>	<b>Operation of ALCATEL / HC3 Switching</b>	<b>12</b>	<b>Operation &amp; Maintenance of SMMV2 Unit</b>
<b>4</b>	<b>O&amp;M of CSN ( Connecting Subscribers Unit)</b>	<b>13</b>	<b>Telephone Traffic</b>
<b>5</b>	<b>Maintenance of ALCATEL HC3 Switching</b>	<b>14</b>	<b>Management of Switching Files ( ALCATEL 1000)</b>
<b>6</b>	<b>CCS7 &amp; V5 (Signalling Systems)</b>	<b>15</b>	<b>Intelligent Network</b>
<b>7</b>	<b>ISDN (Integrated Circuits Digital Network)</b>	<b>16</b>	<b>Operation &amp; Maintenance of CDMA – NSS system</b>
<b>8</b>	<b>Operation of C&amp;CO8 Switching ( Chinese System)</b>	<b>17</b>	<b>Fundamentals of Switching</b>
<b>9</b>	<b>Switching Systems</b>	<b>18</b>	<b>Data Transmission</b>



## b) Power & Air-Conditioning Programmes

	Training Course 's Name		Training Course's Name
1	Fundamentals of Electricity	7	Rectifiers Systems
2	Vocational Security & Safety	8	O&M of Power Equipment (SICON & SAFT WattPower , ERICSSON Rectifiers)
3	Telecomm Feeding Systems	9	O&M of Generators (CAT,CGM,HELWAN,SUNLIGHT, PowerPro)
4	Solar Cells & Batteries systems	10	Control & Protection of Electrical Circuits
5	Power Electronics	11	O&M of Invertors (ELTEK)
6	Precautionary Grounding System	12	Power ( Special course)



## Cont ..... Power & Air-Conditioning Programmes

	Training Course's Name		Training Course's Name
<b>13</b>	<b>O&amp;M of Power Generator (TEKSAN)</b>	<b>18</b>	<b>Solar Energy</b>
<b>14</b>	<b>Generators' Mechanism</b>	<b>19</b>	<b>O&amp;M of Central Air- Conditioning Systems (Liebert Hiross)</b>
<b>15</b>	<b>Fundamentals of Air- Conditioning</b>	<b>20</b>	<b>O&amp;M of Air- Conditioning Systems (Liebert Hiross)</b>
<b>16</b>	<b>Air- Conditioning Systems</b>	<b>21</b>	<b>O&amp;M of Air- Conditioning Equipment(Stulz)</b>
<b>17</b>	<b>O&amp;M of Air-Conditioning Equipment(Split &amp; Windows)</b>		



# Training Activities

## (3) Section of

## Computer & General Science



## • Labs of Computer & General Science Section

	LAB'S Name		Lab's Name
1	MICROSOFT Lab	8	Graphics Lab
2	ORACLE Lab	9	GIS Lab
3	Computer Networking	10	ICDL ( 9 labs + 1 lab for testing ) -20 pcs each-
4	Programming Lab	11	International Tests (VUE & Prometric)
5	Computer Maintenance	12	Installation & Maintenance of Solar Energy
6	Computer Applications	13	Fundamentals of Electronics
7	Programming & Maintenance of Smart Phones	14	Fundamentals of Electricity

# a) Computer Programmes

	Training Course 's Name		Training Course's Name
1	MCSE (MICROSOFT Certified Systems Engineer)	14	GIS ( different Courses)
2	MCSA (MICROSOFT Certified Systems Administrator)	15	Visual Basic Net I,II
3	ORACLE (FORMS, REPORTS, DBA I,II ,SQL, PLSQL)	16	Visual C++
4	Fundamentals of UNIX Operating system	17	Photoshop
5	UNIX Networking Administrator)	18	3D Studio
6	Internet Website Designing	19	Flash
7	ASP Net	20	E-Learning
8	Computer Networking (LAN & WAN)	21	Staad Pro (Structural Analysis And Design Computer Programme)
9	Computer Networking Management (Windows Advanced Server XXXX	22	AutoCAD
10	Linux Operating System	23	Graphics (Photoshop, After Effects, 3D-Max Illustrator, Adobe request)
11	Computer Networks & Protocols (TCP/IP)	24	Windows NT
12	Computer Assembling & Maintenance	25	ICDL
13	CITRIX		

**Any Training course REQUESTED**

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## Computer Programmes Cont....

### Short Term Diplomas

	Diploma's Name		Diploma's Name
1	Graphics	8	Application Programmes
2	Website Design	9	Programming (Essential )
3	Computer Maintenance	10	Programming ( Advanced)
4	Architecture Design	11	Computerized Secretary
5	Wireless Telecommunication	12	Switching
6	CISCO Networking	13	Programming & Maintenance of Smart Phones
7	Installation & Maintenance of Solar Energy	14	Programming & Maintenance of Smart Phones



## • International Academies

The GTI carries out most programmes of **FOUR** international academies :

- **Microsoft**
- **Oracle**
- **Cisco**
- **ESRI –GIS-** (**E**nvironmental **S**ystems **R**esearch **I**nstitute)

## □ International Test Centers

The GTI is certified for more than 38 test centers, under :

- **Pearson VUE** (**V**irtual **U**niversity **E**nterprises)
- **Prometric**



## ❖ CISCO ACADEMY

	CISCO Courses		CISCO Courses
1	Network Essentials	2	ITE
3	CCNA1v7	4	CCNA2v7
5	CCNA3v7	6	CCNP Enterprise
7	CCNP Enterprise : Advanced Routing	8	Network Security
9	Python 3	10	CyberOPS Associate
11	IPv6 Essentials	12	CCNPv6 Advanced
13	Security	14	IoT Fundamentals
15	CCNA/CCNP Fast Track	16	Cybersecurity Essentials
	<b>Any Other Courses Requested !!!!</b>		



## Other Training Courses:

In addition to the technical and computer courses, the GTI carries out other courses in different branches such as :

- **Administrative Courses**
- **Financial Courses**
- **Commercial Courses**
- **Legal Courses**

❖ ( 7 big halls + 53 different courses)



## b) Administrative & Legal Training Courses

	<b>Training Course's Name</b>		<b>Training Course's Name</b>
<b>1</b>	<b>Training of Trainers</b>	<b>2</b>	<b>Developing the Administrative &amp; Behavioral Skills of the Supervisory Jobs</b>
<b>3</b>	<b>Training Planning &amp; Determination of Training Needs</b>	<b>4</b>	<b>Time Management</b>
<b>5</b>	<b>Human Resources Development &amp; Management of Intellectual Capital</b>	<b>6</b>	<b>Time Management and Effective Authorization</b>
<b>7</b>	<b>Evaluation of Employees Performance</b>	<b>8</b>	<b>Effective Communication Skills and Writing Reports</b>
<b>9</b>	<b>Skills Development of Public Relations Managers</b>	<b>10</b>	<b>Management Information Systems</b>
<b>11</b>	<b>Work Organizing &amp; Simplifying Procedures</b>	<b>12</b>	<b>Management of Change</b>
<b>13</b>	<b>Secretariat Skills &amp; Archiving Files</b>	<b>14</b>	<b>Analyzing Problems &amp; Decision Making</b>
<b>15</b>	<b>Developing the Skills of High Departments Offices' Managers</b>	<b>16</b>	<b>Negotiation &amp; Crisis Management</b>
<b>17</b>	<b>Computerized Secretariat and Managing Offices Managers</b>	<b>18</b>	<b>Strategic Planning</b>
<b>19</b>	<b>Supervisory &amp; Leading Skills</b>	<b>20</b>	<b>Recent Methods &amp; Trends in Management</b>
<b>21</b>	<b>Project Management Professional (PMP)</b>	<a href="http://www.gti.edu.ye" style="color: white;">www.gti.edu.ye</a> , E-mail: <a href="mailto:abdulraouf.qahtan@gti.edu.ye" style="color: white;">abdulraouf.qahtan@gti.edu.ye</a>	



## Administrative & Legal Training Courses

	Training Course 's Name		Training Course's Name
<b>22</b>	<b>Achieving the Creative &amp; Distinguished Performance</b>	<b>23</b>	<b>Description &amp; Evaluating Jobs and Professional Career Planning</b>
<b>24</b>	<b>Education on Quality Assurance Systems ISO 2000 - 9001</b>	<b>25</b>	<b>Development of Organizational &amp; Jobs Structures to follow up the International Changes</b>
<b>26</b>	<b>Development of Self-skills &amp; Activating Abilities</b>	<b>27</b>	<b>Legal Aspects in Department and procedure Skills of Administrative Investigations</b>
<b>28</b>	<b>Contemporary Trends in Skills &amp; Methods of Training Technology</b>	<b>29</b>	<b>Developing Skills and Legal Statements &amp; Defending in Courts</b>
<b>30</b>	<b>Education on Health &amp; Occupational Safety System</b>	<b>31</b>	<b>Telecommunications Services Definitions</b>
<b>32</b>	<b>Strategies of Analysis &amp; Evaluation of Training Proceeds</b>	<b>33</b>	<b>Description &amp; Evaluating Jobs and Professional Career Planning</b>
<b>34</b>	<b>Achieving the Creative &amp; Distinguished Performance</b>		<b>Any Training Course REQUESTED</b>



## c) Financial & Commercial Programmes

	Training Course 's Name		Training Course's Name
1	Dealing Skills With Customers.	11	Development of Costs Systems
2	Strategic Planning of Marketing & Effective Sales Management	12	Recent Trends of Purchase Management & Effective Supplies
3	Telecommunications Services Marketing	13	Advanced Trends of Stocks Management
4	Information Systems& Database of Marketing & `Sales.	14	Basics of Accounting
5	Methods of Marketing Plans setting and Evaluation of Sales & Marketing	15	Exploration Study & Evaluation of the Projects Economic Feasibility
6	Sales of Telecommunications Services	16	Recent Standards of Auditing Verification , Review and Financial Control
7	Methods & Skills of Promotional Plans Setting & Sales Activating	17	Advanced Financial Accounting and Unified Budgets.
8	Accounting Skills , Preparing of Budget's Estimations and Financial Auditing Reports.	18	Basics of Cost accounting
9	Unified Accounting System	19	Cost Accounting and Minimizing of Expenditures (1,2)
10	Financial Analysis & Preparing Balances	20	<b>Any Training Course REQUESTED</b>
11	Integrated Accounting System (IAS – YemenSoft)		

# Beneficiary Institutions of GTI Training Activities

- as example
- (a) -: **Ministries , Authorities & Companies**
- Ministry of Telecommunication and Information Technology
- Ministry of Information
- Ministry of Defense
- Ministry of Interior
- Ministry of Technical Education & Vocational Training
- Ministry of Local Affairs
- Ministry of Transport
- Ministry of Health
- Public Authority of Post
- Civil Aviation & Meteorology Authority
- Yemen Standardization , Metrology & Quality Control Organization
- Canadian Nexen Company
- Safer Exploration and Production Operations Company (SEPOC)
- Yemen Mobile , Teleyemen, YOU, Sabafon
- The General Authority for Rural Water Supply Projects
- Public Electricity Corporation ,, , , , , , etc





## ● (b) :-Universities and Institutes :

- Sana'a University
- Aden University
- Hadramout University
- University of Science & Technology
- British Institute for Languages & Computer
- Al-Jazeera Institute for Languages & Computer (Ghail Bawazeer – Hadramout)
- Faculty of Society
- Yemeni Women Society
- Police Faculty



## ❖ Other Training Services :

- Providing original documents of Oracle ,Microsoft ,CISCO, ICDL programmes ....etc
- Carrying out training courses **internally** or **externally** depending on the request provided from any institution.



# Statistics

- There are **170** different training courses can be carried out at GTI (**117** technical + **53** administrative, financial, commercial & legal ... etc)
- The GTI owns **30** labs + **7** big halls + **8** classrooms + 1 grandstand (cap.300 seats) for big & international meetings and symposiums.
- The GTI carries out up to **360** different training courses yearly.
- The Nr. of trainees up to **12,000** yearly.



# GTI

## Committed to Excellence & Leadership

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# Thank You

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