

## Electrical Power System – ETAP-Training Program

Sir /Madam,

AGS is a Leading **Technical training Academy in Chennai** for **Technical & Engineering courses** covering the fields like Oil & Gas, Power, Industrial, Infrastructure, Energies, Chemical, Heavy Engineering, Production, Construction & Information Technology. AGS has purchased valid **ETAP Software 12.6** for carrying out Field Jobs in Electrical Power System network and Job Oriented Electrical Training Program in Institutions and Industries. Seminars & Workshops are being conducted as per the following topics listed.

**Training Programs: WS: WorkShop & HOT: Hands On Training**

No	Name of program *	WorkShop & Hands On Training	2 Hours Workshop	Requirements
1	PS Engineering Concepts, Design & Standards.	WS & HOT	2hrs/Topic	1.Seminar/Hall
2	PS Analysis Through ETAP Software	WS & HOT	2hrs/Topic	2.Laboratory
3	Testing of SS Equipments & Relay Coordination	WS & HOT	2hrs/Topic	3.Projector
4	Electrical Safety(WS) & Arc-Flash (ETAP)	WS & HOT	2hrs/Topic	4.White Board
5	Electrical Substation O&M (Relay-Coord.- ETAP)	WS & HOT	2hrs/Topic	<b>Software</b>
6	HV Cable Splicing/Termination Testing	WS & HOT	2hrs/Topic	1.MS-Excel
7	PS Engineering for Field Technicians	WS & HOT	2hrs/Topic	2.Matlab
8	Electrical Induction Training	WS & HOT	2hrs/Topic	3.Etap-4/7/12.6

**Note:** “\*” For detailed syllabus, please refer the attachment.

### Trainer/Instructor:

Mr.K.Ramachandran, Chief Mentor (AGS ACADEMY) has more than 27 years of Industrial Experience in Electrical Power Systems [As an Engineer for 15 years in Dubai Electricity and Water Authority, for 05 years in Best & Crompton Engineering in Power Generation Projects and for 01 year in Saudi Arabia SCECO Projects and more than 6 years in various Design & Consultancy Firms]. And Diploma & Degree obtained From Alagappa & RVD Universities and PG Degree course completed from MGR University in Electrical Power System Stream.

### Software ETAP 12.6:

AGS has purchased the original ETAP-12.6 Software and Holding the valid License for Conducting Field Works & Training Program. Also we ensure all Technical supports shall be available all times from ETAP for Field Works and Trainings.

### List of Topics

No	Topics/Syllabus	Hrs		Main Software	Exercise thro	Presentation Method
<b>1</b>	<b>PS Engineering Concepts, Design &amp; Standards.</b>	<b>10</b>				
1.	PS: Basic Review	2	Hours	ETAP	MS-Excel	PPT
2.	PS: SS – Design/ Erection (Installation),T&C	2	Hours	ETAP	MS-Excel	PPT
3.	PS: Relay Protection	2	Hours	ETAP	MS-Excel	PPT
4.	PS: SS-O&M	2	Hours	ETAP	MS-Excel	PPT
5.	PS-Safety while Erection(Installation),T&C	2	Hours	ETAP	MS-Excel	PPT
<b>2.</b>	<b>Power System Analysis Training thro Software</b>	<b>40</b>				
1.	Load Flow	2	Hours	ETAP	MS-Excel	PPT
2.	Short-Circuit	2	Hours	ETAP	MS-Excel	PPT
3.	Motor Acceleration	2	Hours	ETAP	MS-Excel	PPT
4.	Harmonic Analysis	2	Hours	ETAP	MS-Excel	PPT
5.	Relay Coordination/Selectivity	2	Hours	ETAP	MS-Excel	PPT
6.	Arc Flash	2	Hours	ETAP	MS-Excel	PPT
7.	Transient Stability	2	Hours	ETAP	MS-Excel	PPT
8.	Optimal Power Flow	2	Hours	ETAP	MS-Excel	PPT
9.	Optimal Capacitor Placement	2	Hours	ETAP	MS-Excel	PPT
10.	Reliability Analysis	2	Hours	ETAP	MS-Excel	PPT
11.	Generator Capability Curve Analysis	2	Hours	ETAP	MS-Excel	PPT
12.	Transformer Sizing	2	Hours	ETAP	MS-Excel	PPT
13.	Parameter Estimation	2	Hours	ETAP	MS-Excel	PPT
14.	Transmission Line Sag, Tension & Ampacity	2	Hours	ETAP	MS-Excel	PPT
15.	Underground Raceway Systems	2	Hours	ETAP	MS-Excel	PPT
16.	Cable Pulling Systems	2	Hours	ETAP	MS-Excel	PPT
17.	Ground Grid Systems	2	Hours	ETAP	MS-Excel	PPT
18.	Panel Systems	2	Hours	ETAP	MS-Excel	PPT
19.	DC Systems	2	Hours	ETAP	MS-Excel	PPT
20.	User-Defined Dynamic Modeling	2	Hours	ETAP	MS-Excel	PPT
<b>3</b>	<b>Testing of SS Equipments &amp; Relay Coordination</b>	<b>8</b>				
1.	Pre-Commissioning Procedures/ Checks/Tests For S/S Bay Equipment & Power Transformers	2	Hours	-	-	PPT
2.	Various Types of Faults, Effects of fault Currents and Relays functioning	2	Hours	ETAP	-	PPT
3.	Electrical System Protection Techniques - Relay Settings, TCC Curves & Charts Discussion	2	Hours	ETAP	-	PPT
4.	Protective Devices Selectivity & Coordination	2	Hours	ETAP	-	PPT