

## TRAINING REPORT



## ***EFFECTIVE TEACHING OF SCIENCE SUBJECTS***

**For Science Teachers of  
GMS, APS, Golden Arrows & F.C Schools  
from Newly Merged Districts of KP**

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## 1. Acknowledgment

AFAQ is indebted to 'Merged Areas Education Foundation, Khyber Pakhtunkhwa', for their kind facilitation extended in realizing this cardinal assignment. Guidance, encouragement and trust from the leadership enabled the project team to perform beyond the limits.

To be specific, AFAQ is thankful to Mr. Abdul Akram (Managing Director – MAEF) for his valuable and selfless efforts. We are also thankful to Dr. Shoukat Hayat, (Deputy Managing Director - MAEF) for supporting us in the successful accomplishment of this project.

AFAQ exclusively acknowledges an honest and truthful effort of all the Resource Persons and the event management team for their outstanding work. AFAQ is thankful to Mr. Amir Zeb – Director Training & Services AFAQ and Mr. Fazal Elahi Awan – Senior Manager Training AFAQ for their strategic support. We are also grateful to Mr. Adnan Amin – Management Trainer AFAQ Peshawar, Mr. Rehmat Panah (Master Trainer – AFAQ) and Mr. Muhammad Ajmal (Master Trainer – AFAQ) for contributing as resource persons. We would also like to thank Mr. Abdul Sammad Shamsi – Senior Manager Corporate Communications – AFAQ for leading our media campaign.

**Muhammad Shahid Khan**  
**Management Trainer**  
**AFAQ Pakistan**



## 2. Abbreviations

<b>AFAQ</b>		Association for Academic Quality
<b>ADP</b>		Annual Development Plan
<b>APS</b>		Army Public School
<b>BISE</b>		Board of Intermediate & Secondary Education
<b>CPs</b>		Course Participants
<b>DMD</b>		Deputy Managing Director
<b>DCTE</b>		Directorate of Curriculum & Teacher Education
<b>ESED</b>		Elementary & Secondary Education Department
<b>FC</b>		Frontier Corps School
<b>FATA</b>		Federally Administered Tribal Areas
<b>GMS</b>		Governor Model School
<b>GHSS</b>		Government Higher Secondary School
<b>ISO</b>		International Organization for Standardization
<b>KP</b>		Khyber Pakhtunkhwa
<b>NMDs</b>		Newly Merged Districts
<b>MAEF</b>		Merged Areas Education Foundation
<b>MT</b>		Master Trainer
<b>MD</b>		Managing Director
<b>SNC</b>		Single National Curriculum
<b>SLO</b>		Student Learning Outcome
<b>TNA</b>		Training Need Assessment

### 3. Executive Summary

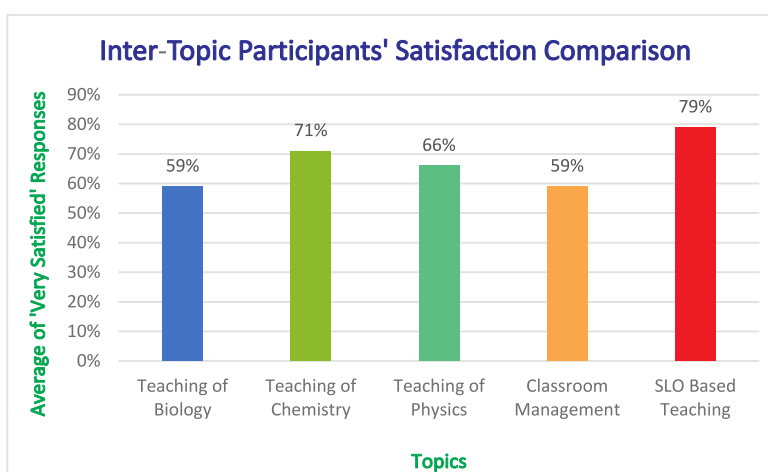
The prime objective of arranging this exclusive training program was not only to train the science teachers in the ‘Subject Competency’ but also equipping them with contemporary teaching pedagogies. This would be another milestone in MAEF’s vision to promote the literacy throughout NMDs.

In this connection, a 4-day residential training program with 31 credit hours was arranged by MAEF in collaboration with AFAQ on ‘Effective Teaching of Science Subjects’. The customized training manuals and activities were designed to achieve the training needs / objectives shared by the management of MAEF. At the end of each session, the participants were asked to fill up the evaluation forms especially designed to evaluate training's usefulness and relevance to their job. The participants’ response to different questions shows that the courses were quite helpful for their job.

Forty seven (47) science teachers (Male: 42, Female: 5) from seven (7) Newly Merged Districts of KP benefitted from this activity based training program.

As per accumulative data analysis of the 5 training topics, the participants felt most satisfied by the topic ‘SLO Based Teaching’ with an average of 79% whereas they felt least satisfied by the topics ‘Teaching of Biology’ & ‘Classroom Management’ with an average of 59% each.

Highly seasoned and specialized resource persons from all over Pakistan were engaged to conduct the solution-based training sessions.





## 4. Introduction of MAEF

MAEF is an autonomous body established to promote education in NMD's of KP. Foundation was established in December, 2004 through a notification by the Governor Khyber- Pakhtunkhwa. The honorable president of Pakistan granted approval of the Foundation on 4th June, 2007. The regulation of the foundation was approved by the president in March 2010 and promulgated in gazette notification by ministry of SAFRON in April, 2010. Though, the foundation was established in 2004 it could not start operation till March, 2007 due to poor law and order situation in Newly Merged Districts of KP. The foundation's initial activity started with the execution of an ADP project "Assistance to Hundred Talented Students" under which 390 students have been admitted in quality educational institutions outside the 'Newly Merged Districts of KP'. MAEF is now undertaking various activities to realize its vision of providing enabling education.

### 4.1 MAEF's Vision

Provision of access to enabling education through strengthening public educational delivery system and public-private partnership with focus on the marginalized and the disadvantaged.

### 4.2 MAEF's Mission

To work as a catalyst for provision of enabling education & creating learning opportunities.





### 4.3 MAEF's Objectives

1. To sponsor public private partnership initiatives in education sector of NMDs;
2. To regulate, support and monitor existing model schools in public and private sector;
3. To support Voluntary Educators' Schools (VESs) established by educated youth through an integrated program;
4. To train teachers, headmasters and other stake holders; and
5. To take special measures for promotion of literacy with particular focus on female education.

### 5. AFAQ's Introduction

AFAQ is an independent, ISO 9001:2015 certified organization dedicated to improving education in Pakistan. Being a collaborative venture of major leading, not-for-profit organizations working in the education sector, AFAQ has a vision to improve the quality of education in Pakistan through a diverse range of services which includes: curriculum development, textbooks and children's publications, model school development, teacher training, youth promotion, career counseling and student assessment and evaluation.

Under strict quality control, AFAQ is zealously engaged in realizing its high-rise ideals. Over the years, AFAQ has grown into an international organization providing its services in the Middle East, South East Asia, Africa and Scandinavian countries.

## 6. Profile of Resource Persons

### 6.1 Mr. Rehmat Panah

Mr. Rehmat Panah (Subject Specialist Chemistry) has rendered his professional services as a 'Master Trainer of Science Subjects' to 'Aga Khan Education Services Pakistan' for nine years. He completed his ELM from 'Aga Khan University Professional Development Center - Chitral Campus', in year 2014. He has trained more than two thousand teachers on how to teach Chemistry and science subjects at SSC and HSSC levels. Then, he trained thousands of Chemistry teachers on laboratory work and marking of SLO based papers.



### 6.2 Mr. Muhammad Ajmal

Mr. Muhammad Ajmal has earned a degree of M.Sc Physics and M.Ed in Science Education. He is a professional master trainer of AFAQ. He has worked as a 'Master Trainer' with DCTE Abbottabad. He has worked as a 'Master trainer' in the CPD project of ESED KP. He is also the master trainer of 'Teacher Induction Program for SST Teachers'. He has been an item writer at AKU-EB Karachi. He has also worked as an item moderator and a 'Super Moderator' at FBISE. He is currently working as an item moderator with BISE Peshawar, BISE Swat and BISE Abbottabad.



### 6.3 Mr. Adnan Amin

Mr. Adnan Amin is an M.Phil in 'Life Sciences'. He is working as a 'Senior Trainer' at AFAQ. He is a certified trainer from Solution Tree (USA) and Finish Education System (Finland). He is actively engaged in training the teachers of more than 1000 institutions throughout Pakistan. He has trained thousands of teachers and students nationwide.



## 7. Training Objectives

Training Objectives for the 'Science Teachers' were to;

- 1 Enhance their competency of teaching science subjects.
- 2 Learn how to teach an 'SLO based curriculum'.
- 3 Understand the basics of classroom management.

## 8. Project Management Team

Sr.	Name	Role	Organization
1.	Mr. Azeem Liaqat Training Coordinator	Coordination	AFAQ
2.	Mr. Abdul Samad Shamsi Senior Manager Corporate Communications	Media Management	AFAQ
3.	Mr. Muhammad Yaseen	Logistics Management	AFAQ

## 9. Key Activities of the Program

### 9.1 Welcome Note:

Dr. Shoukat Hayat – Deputy Managing Director MAEF welcomed the participants on venue. He shared the objectives of the training program, in his welcome note. He told the participants that MAEF desires to see a sustainable change in society by providing equal opportunities for the marginalized children of ‘Newly Merged Districts, Khyber Pakhtunkhwa’. Teaching of science is a crucial skill especially in our context. Therefore, we have arranged this exclusive training program to equip our science teachers with the subject competency & contemporary teaching pedagogies.





## 9.2 Expectations & Training Norms:

Mr. Amir Zeb – Director Training & Services AFAQ, arranged all the participants in a circle. Through an interactive session, he inquired the learning expectations from the participants and set the training norms. The participants agreed with the training norms prescribed and took an oath to abide by the rules for smooth execution of the training activities.


## 9.3 Training Topics:

In the light of training objectives shared by the Management of MAEF, the following training topics were planned to conduct:

1. Teaching of Chemistry (Mr. Rehmat Panah)
2. Teaching of Physics (Mr. Muhammad Ajmal)
3. Teaching of Biology (Mr. Adnan Amin)
4. Classroom Management (Mr. Muhammad Ajmal)
5. SLO Based Teaching (Mr. Adnan Amin)

### 9.3.1 Teaching of Chemistry

The 'Teaching of Chemistry' topic taught the participants contemporary methods / techniques of teaching. The participants were given deep understanding of SLO based teaching & assessment. The concepts were clarified through hands-on activities, group discussions and presentations. The participants got an opportunity to develop various test items like MCQs, CRQs & ERQs



based on a specific SLO. Above all, they learnt how to develop Rubrics and Table of Specification, as per SNC.

### **9.3.2 Teaching of Physics**

The resource person opened his session by discussing the aims and objectives of teaching Physics. Then, he taught the foundation of teaching it. Through presentations and case studies the CPs were clarified the 'Constructivist Theory' of teaching Physics. Also, did he explain the '5-E Learning Cycle' through various hands-on activities. He concluded by sharing varied contemporary teaching strategies to teach Physics effectively. The last segment of the session was admired greatly by the participants.

### **9.3.3 Teaching of Biology**

The participants were explained the nature of 'Biology' in an interactive way. Challenges while teaching Biology were taught through peer-teaching method. The CPs also learnt the scientific method of investigation through hands-on activities. They were guided how to develop an effective lesson plan to teach Biology effectively by opting contemporary teaching methods.

### **9.3.4 Classroom Management**

Since each and every student in the class is unique in the attitude and aptitude. So, mastering the art of dealing with the students is mandatory to learn along with subject competence. The participants were taught in this session on how to keep their students engaged, productive and disciplined in the classrooms. The resource person shared the tips to get the classroom rules formed by the students for a congenial learning atmosphere. The participants learnt to deal their students having diversified personality types and learning styles within

a classroom. Best practices and case studies of managing the classrooms were also shared by the resource person to motivate the participants.

### 9.3.5 SLO Based Teaching

In this very topic the basic objectives of education were discussed and clarified to the participants. The resource person developed an understanding of the curriculum and its process. Through various activities CPs learnt teaching methodologies suggested by SNC. The best part was when they developed the rubrics of their subject themselves and presented it to their peers. That is how the resource person linked SLO based teaching with SLO based assessment.

### 9.4 Bonfire

To break the hectic routine, a bonfire was arranged for the participants. The activity not only entertained the participants but also provided an opportunity to interact with their peers and the management informally. It was full of sharing of ideas, success stories, fun, life lessons, jokes and the lavish food. Mr. Abdul Akram (Managing Director – MAEF), Mr. Amir Zeb (Director Training & Services – AFAQ), Dr. Shoukat Hayat (DMD – MAEF) and senior personnel from ESED also graced the event to encourage the participants for their best participation.





## 9.5 Closing Ceremony

To acknowledge and value the participants' passion towards their professional development, certificates were awarded. The dignitaries like Mr. Rehmat Salam Khattak (Advisor - ESED), 'Mr. Abdul Akram – Managing Director MAEF' and 'Mr. Amir Zeb – DTS AFAQ' gave away the certificates to the participants. Mr. Rehmat Salam Khattak (Advisor - ESED) got inspired by the training quality and appreciated the role of private institutions like AFAQ in developing the nation.

Later, 'Mr. Abdul Akram – Managing Director MAEF' appreciated the participants for their active participation. Also, did he thank AFAQ's team on conducting this unique training activity. Moreover, he acknowledged that all the participants are working so dutifully within the limited resources and infrastructure available. Dr. Shoukat Hayyat (DMD – MAEF) led the agenda as a host of the ceremony.

'Mr. Amir Zeb – Director Training & Services AFAQ' was invited to conclude the program through his closing remarks. He emphasized the pivotal role of team work to achieve any target in the life. Also, did he admire and endorse the vision of MAEF management that focuses on 'Quality Education for All the Children'.

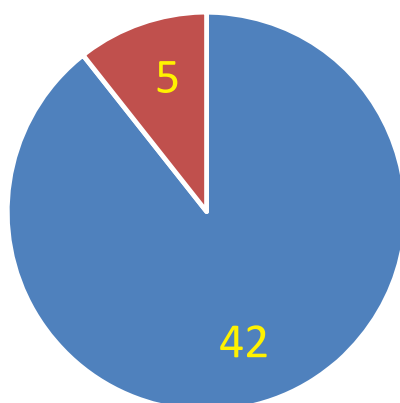


## 10. Participants' Demographics

### 10.1 CP's Gender Proportion

47 participants joined this training program from the NMDs of KP. Out of which 42 participants were male and 5 were females.

Gender-wise Participation

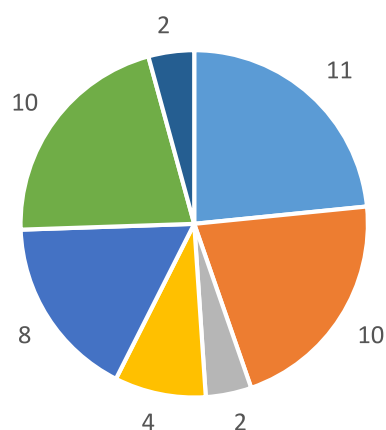


■ Male ■ Female

### 10.2 CP's Geographical Participation

The participants joined this training program from the following seven (7) Newly Merged Districts of KP.

District-wise Participation



■ Kurram ■ Bajaur ■ North Waziristan ■ South Waziristan ■ Mohmand ■ Khyber ■ Orakzai

## 11 Training Feedback

Though the participants and management used to share their feedback daily through the prescribed evaluation forms yet they were asked to record their valuable feedback on camera, at the completion of training program. The participants and guests shared that the training agenda was full of active learning through well planned activities. They were also feeling sad on parting from their training fellows as they had spent 4 days together, as peers.

They thanked MAEF & AFAQ for providing them with this wonderful capacity building opportunity.

“

After listening to the views and sentiments of the participants, I have realized that the workshop arranged by MAEF & AFAQ collaboratively has been very fruitful.



**Mr. Rehmat Salam Khattak**  
Advisor - ESED

”

### Feedback

It was an amazing workshop for me. I learnt a lot of things, ideas and methods from the experienced Trainers of AFAQ. It was a great learning experience for me.

**Mr. Muhammad Saqlain (Teacher)**  
Governor Model School - Parachnar

### Feedback

I am very thankful to the management of MAEF and AFAQ for arranging this beautiful and valuable training for teachers. I have learnt a lot of new things like activities how to deliver our lecture effectively to the students.

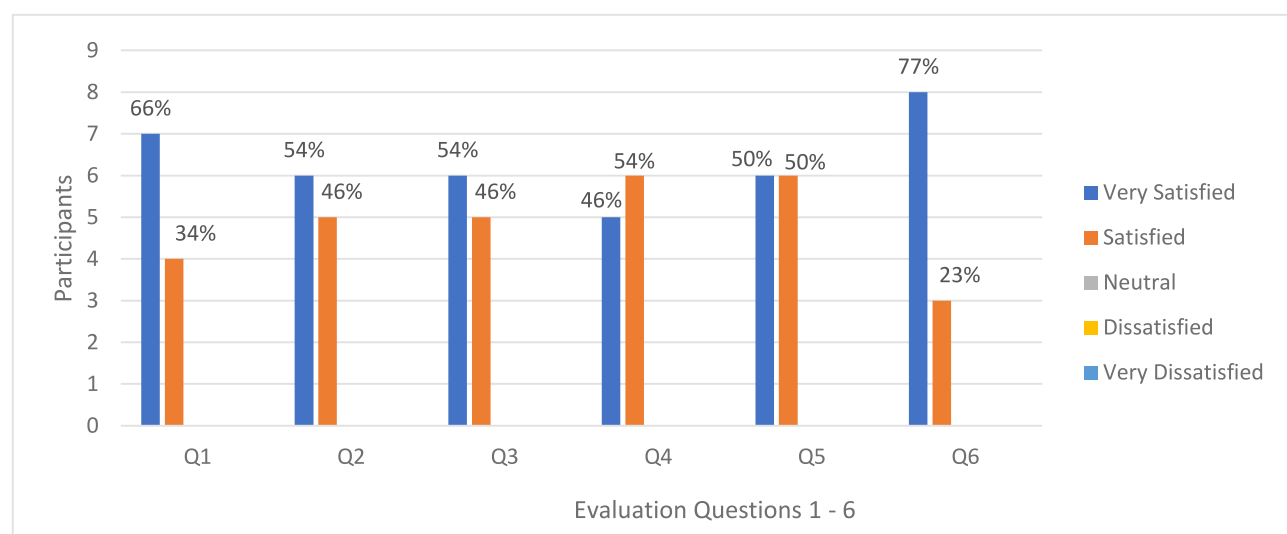
**Mr. Sayyeda Marina**  
Teacher - Governor Model School - Bajaur

## 12 Participants' Feedback Analysis

A customized training evaluation tool was used to measure the satisfaction and learning index of the participants. The tool is comprised of six major areas to check the quality of training, relevance of content, conduction of training, professional skills of the resource person, outcomes of the training and the ambience of the training venue. Each question is measured on the Likert Scale (Very Satisfied, Satisfied, Neutral, Dissatisfied, Very Dissatisfied). The six (6) questions of the evaluation tool are as under:

1. The workshop outcomes were achieved as per my expectations.
2. This workshop contributed in my personal and professional skill development.
3. Moral and Islamic values were observed during the workshop.
4. Trainer exhibited mastery over content and presentation.
5. Venue and facilities were adequate and comfortable.
6. Overall, I enjoyed the workshop and it was the best utilization of my time.

### Teaching of Biology

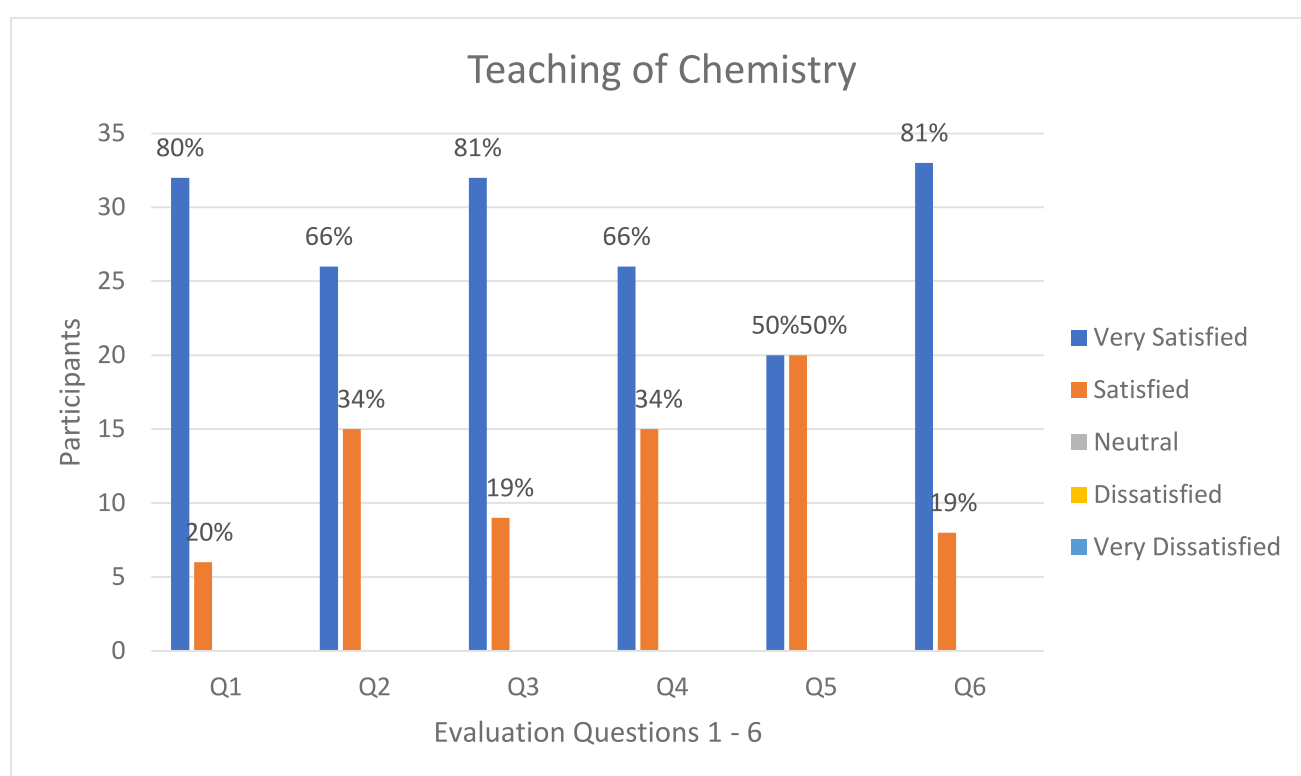


**Findings:** The graph above shows that in Q1 66% of the CPs were 'Very Satisfied'; 34% of the CPs were 'Satisfied'. In Q2 46% of the CPs were 'Very Satisfied'; 54% of the CPs were 'Satisfied'. In Q3 54% of the CPs were 'Very



*Satisfied'; 46% of the CPs were 'Satisfied'. In Q4 54% of the CPs were 'Very Satisfied'; 46% of the CPs were 'Satisfied'. In Q5 50% of the CPs were 'Very Satisfied'; 50% of the CPs were 'Satisfied'. In Q6 77% of the CPs were 'Very Satisfied'; 23% of the CPs were 'Satisfied'.*

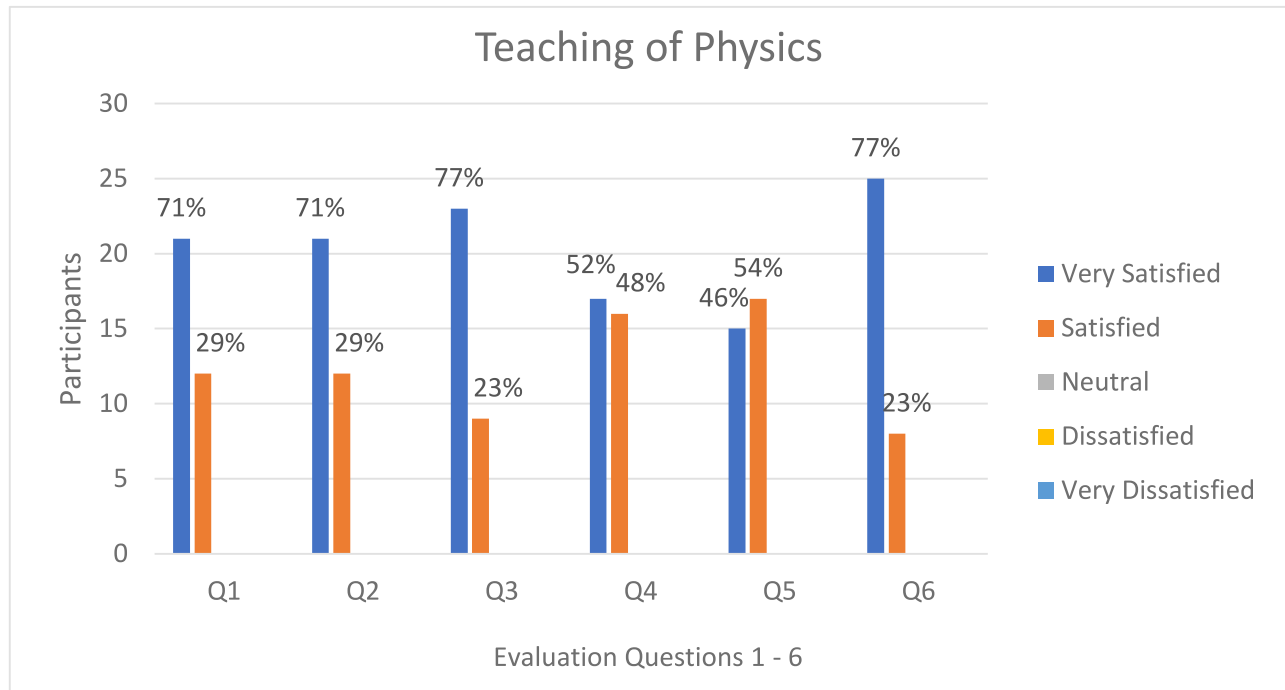
## Teaching of Chemistry



**Findings:** The graph above shows that in Q1 80% of the CPs were 'Very Satisfied'; 20% of the CPs were 'Satisfied'. In Q2 66% of the CPs were 'Very Satisfied'; 34% of the CPs were 'Satisfied'. In Q3 81% of the CPs were 'Very Satisfied'; 19% of the CPs were 'Satisfied'. In Q4 66% of the CPs were 'Very Satisfied'; 34% of the CPs were 'Satisfied'. In Q5 50% of the CPs were 'Very Satisfied'; 50% of the CPs were 'Satisfied'. In Q6 81% of the CPs were 'Very Satisfied'; 19% of the CPs were 'Satisfied'.

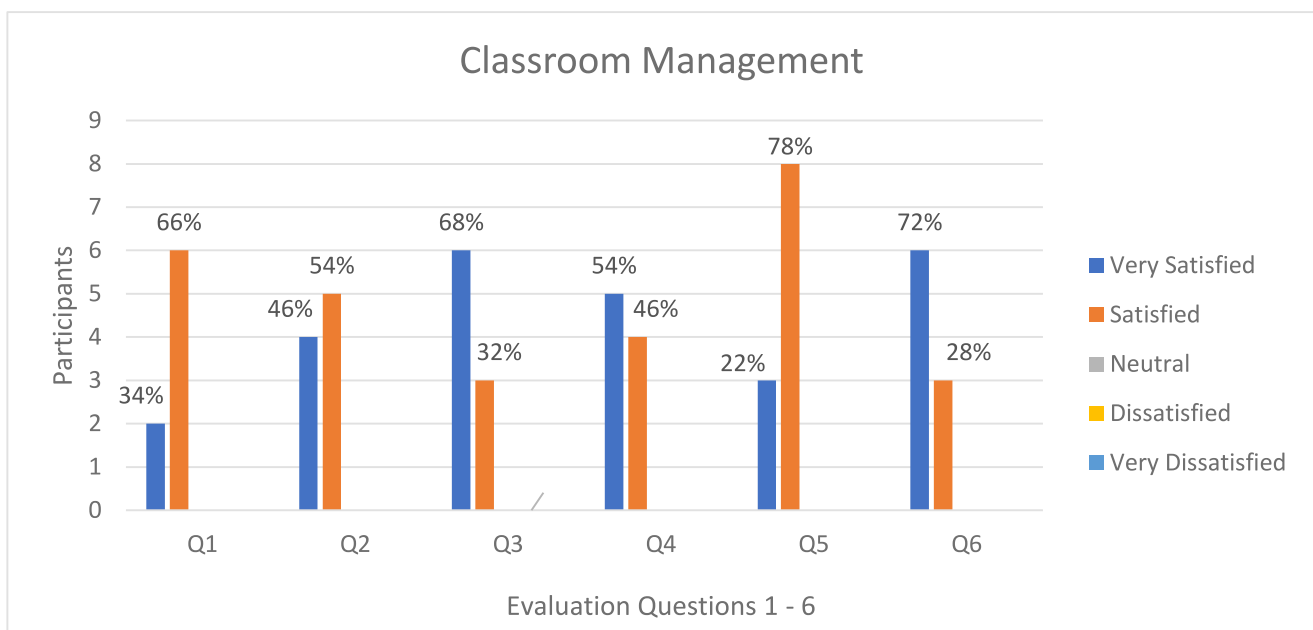


## Teaching of Physics



**Findings:** The graph above shows that in Q1 71% of the CPs were 'Very Satisfied'; 29% of the CPs were 'Satisfied'. In Q2 71% of the CPs were 'Very Satisfied'; 29% of the CPs were 'Satisfied'. In Q3 77% of the CPs were 'Very Satisfied'; 23% of the CPs were 'Satisfied'. In Q4 52% of the CPs were 'Very Satisfied'; 48% of the CPs were 'Satisfied'. In Q5 46% of the CPs were 'Very Satisfied'; 54% of the CPs were 'Satisfied'. In Q6 77% of the CPs were 'Very Satisfied'; 23% of the CPs were 'Satisfied'.

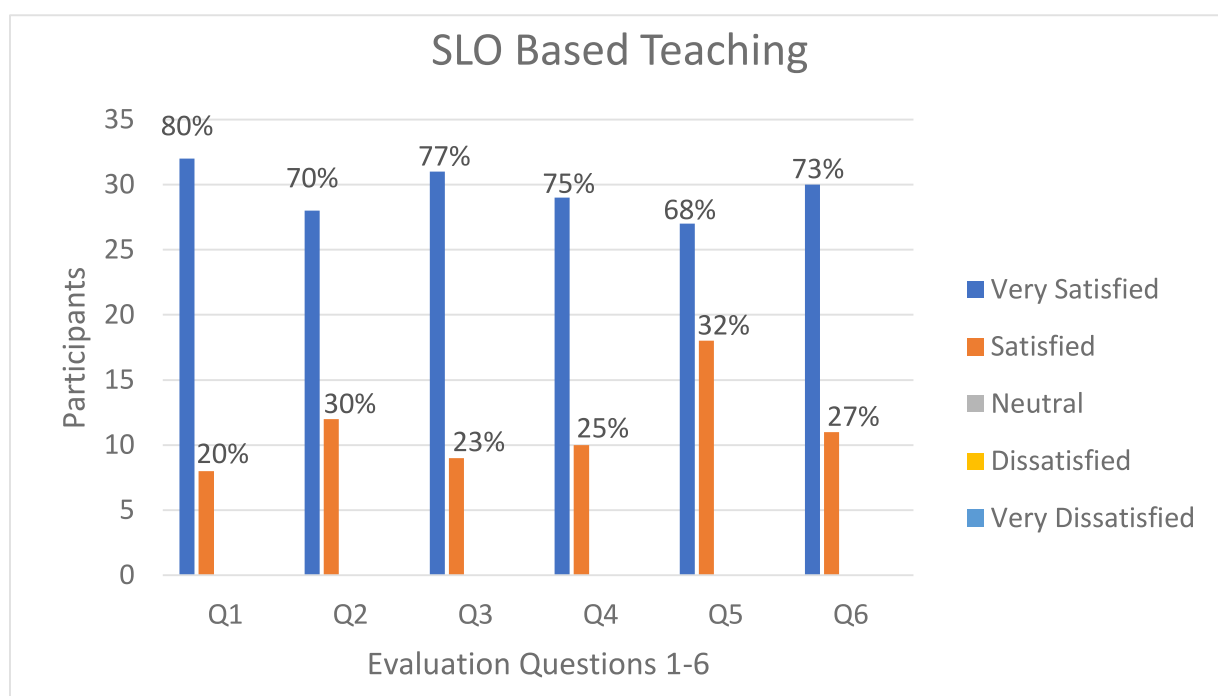
## Classroom Management





**Findings:** The graph above shows that in Q1 34% of the CPs were 'Very Satisfied'; 66% of the CPs were Satisfied. In Q2 46% of the CPs were 'Very Satisfied'; 54% of the CPs were Satisfied. In Q3 68% of the CPs were 'Very Satisfied'; 32% of the CPs were Satisfied. In Q4 54% of the CPs were 'Very Satisfied'; 46% of the CPs were Satisfied. In Q5 22% of the CPs were 'Very Satisfied'; 78% of the CPs were Satisfied. In Q6 72% of the CPs were 'Very Satisfied'; 28% of the CPs were Satisfied.

### SLO Based Teaching



**Findings:** The graph above shows that in Q1 80% of the CPs were 'Very Satisfied'; 20% of the CPs were 'Satisfied'. In Q2 70% of the CPs were 'Very Satisfied'; 30% of the CPs were 'Satisfied'. In Q3 77% of the CPs were 'Very Satisfied'; 23% of the CPs were 'Satisfied'. In Q4 75% of the CPs were 'Very Satisfied'; 25% of the CPs were 'Satisfied'. In Q5 68% of the CPs were 'Very Satisfied'; 32% of the CPs were 'Satisfied'. In Q6 73% of the CPs were 'Very Satisfied'; 27% of the CPs were 'Satisfied'.



## Inter-Topic Participants' Satisfaction Comparison

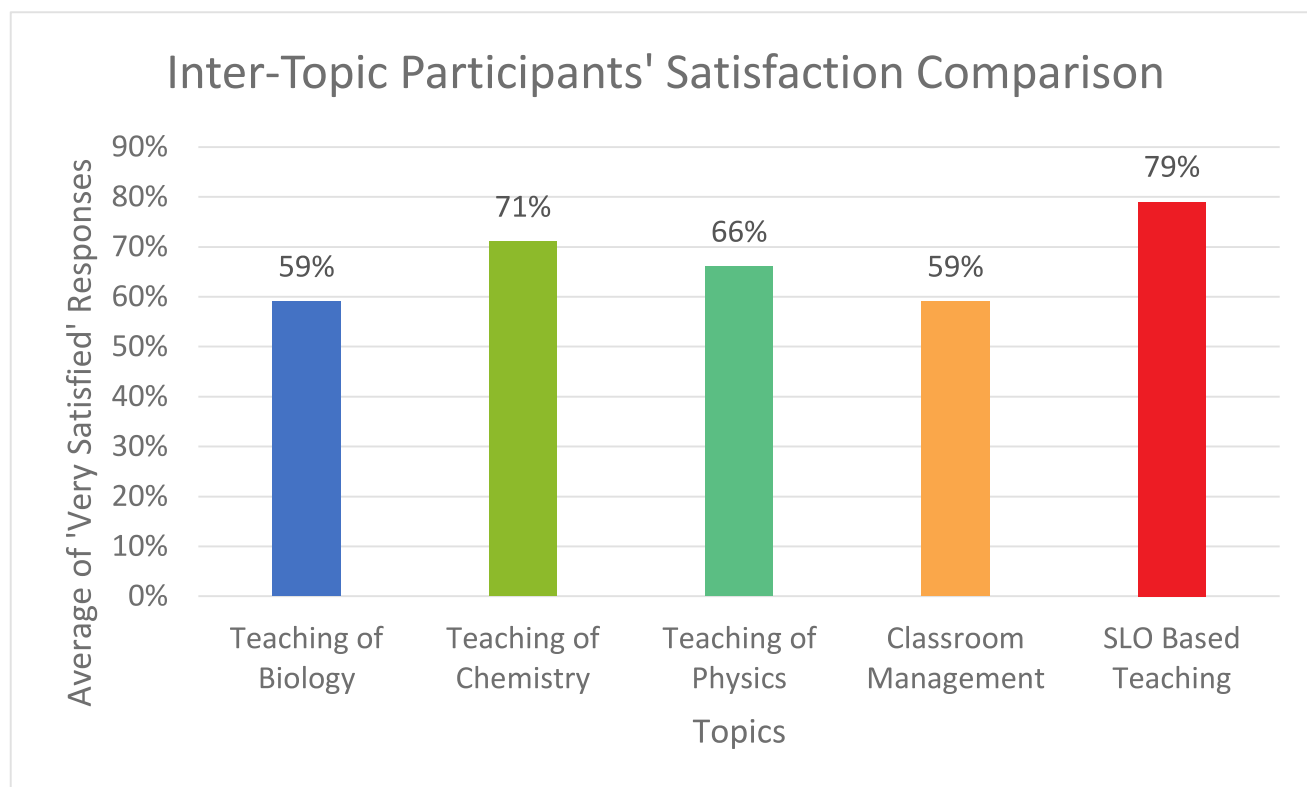
The table below shows satisfaction level of the participants through their responses given in the evaluation form for the 6 key domains of a training workshop. The table also denotes the comparison of satisfaction level among all the 5 topics taught. In the last row, average of each topic has also been shown.

Trainers	Rehmat Panah		Rehmat Panah		Muhammad Ajmal		Muhammad Ajmal		Adnan Amin	
Topics	Teaching of Biology		Teaching of Chemistry		Teaching of Physics		Classroom Management		SLO Based Teaching	
Questions	VS	ST	VS	ST	VS	ST	VS	ST	VS	ST
The workshop outcomes were achieved as per my expectations.	66%	34%	80%	20%	71%	29%	34%	66%	80%	20%
This workshop contributed in my personal and professional skill development.	54%	46%	66%	34%	71%	29%	46%	54%	70%	30%
Moral and Islamic values were observed during the workshop.	54%	46%	81%	19%	77%	23%	68%	32%	77%	23%
Trainer exhibited mastery over content and presentation.	54%	46%	66%	34%	52%	48%	54%	46%	75%	25%
Venue and facilities were adequate and comfortable.	50%	50%	50%	50%	46%	54%	78%	22%	68%	32%
Overall, I enjoyed the workshop and it was the best utilization of my time.	77%	23%	81%	19%	77%	23%	72%	28%	73%	27%
Average	59%	41%	71%	29%	66%	34%	59%	41%	79%	21%

Key: VS = Very Satisfied

ST = Satisfied

## Inter-Topic Participants' Satisfaction Comparison



**Findings:** In the Likert Scale of our evaluation form, the highest level of CPs' satisfaction is indicated by ticking on 'Very Satisfied'. The graph above shows the average of 'Very Satisfied' response by the participants among all the 5 topics taught. The percentages shown above are the average percentages of the 6 questions asked in the evaluation forms. (as described earlier). The participants felt most satisfied by the topic 'SLO Based Teaching' with an average of 79% whereas they have been least satisfied by the topics 'Teaching of Biology' & 'Classroom Management' with an average of 59%.



## 13. Glimpses of the Training Activities





# 14 Annexures

## 14.1 Evaluation Forms

your opinion  
on conduct

issatis

AFaq

**Association For Academic Quality**

Issue Date: 04/11/2020  
Issue # 05  
Revision # 04  
Page 1 of 1

**Title: WORKSHOP EVALUATION FORM**  
Doc. # AFAQ-TRNG/SOP-04/F-03

Training Topic: Effective teaching of Science Subject Workshop type (1-3 D TT, 10 D TT, Diploma etc): \_\_\_\_\_

Workshop Venue: Uop Summer campus baragalli Region: Baragalli District: Abbottabad Town: \_\_\_\_\_

Trainer's Name: Rahmat panah Designation: Chemistry trainer Trg Date: 24-6-2023

Participant's Name: Kashif Ichan Qualification: M.Sc Participant's Contact No: 93331712413

School Name: Aps ACS Landikotal Postal Address of School: ApsACS Landikotal

Please tick (✓) the box representing your opinion according to the given criteria. Your valuable comments and suggestions will highly be appreciated.  
Share your feedback about the session conducted by AFAQ Training Division, Pakistan.

1 = Very Satisfied  
2 = Satisfied  
3 = Neutral (Neither Satisfied Nor Dissatisfied)  
4 = Dissatisfied  
5 = Very Dissatisfied

1. The workshop outcomes were achieved as per my expectations. 1- ورکشاپ کے نتائج میری توقعات کے مطابق حاصل ہوئے۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

2. This workshop contributed in my personal and professional skill development. 2- اس ورکشاپ نے میری ذاتی اور پیشہ ورانہ مہارت کی ترقی میں اضافہ کیا۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

3. Moral & Islamic values were observed during the workshop. 3- ورکشاپ کے دوران اخلاقی اور اسلامی اقدار کو ملحوظ خاطر رکھا گیا۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

4. Trainer exhibited mastery over content and presentation. 4- ٹرینر نے بہترین طریقے سے ٹریننگ کے مواد کو پیش کیا۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

5. Venue and facilities were adequate and comfortable. 5- ٹریننگ کا مقام اور سہولیات مناسب اور آرام دہ تھیں۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

6. Overall, I enjoyed the workshop and it was the best utilization of my time. 6- میں مجموعی طور پر اس ورکشاپ سے لطف اندوز ہوا اور یہ میرے وقت کا بہترین استعمال تھا۔

(1) Very Satisfied (2) Satisfied (3) Neutral (4) Dissatisfied (5) Very Dissatisfied

Comments/Suggestions by Participant:

I really enjoyed the workshop as I learned a lot of new things. I will try to apply these things in practical life

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Signature: B



## Association For Academic Quality

**Title: WORKSHOP EVALUATION FORM**  
Doc. # AFAQ-TRNG/SOP-04/F-03

Issue Date: 04/11/2020

Issue # 05

Revision # 04

Page 1 of 1

Training Topic: <u>Teaching of physics</u>	Workshop type (1-3 D TT, 10 D TT, Diploma etc):
Workshop Venue: <u>Bara-Chali</u>	Region: <u>Abbottabad</u> District: <u>Kurram</u> Town:
Trainer's Name: <u>Muhammad Ajmal Khan</u>	Designation: <u>Teacher</u> Trg Date: <u>9-6-2023</u>
Participant's Name: <u>Icarishma</u>	Qualification: <u>B.Sc</u> Participant's Contact No: <u>0302010955</u>
School Name: <u>GMS</u>	Postal Address of School: <u>Sachla</u>

Please tick (✓) the box representing your opinion according to the given criteria. Your valuable comments and suggestions will highly be appreciated.  
Share your feedback about the session conducted by AFAQ Training Division, Pakistan.

1 = Very Satisfied

2 = Satisfied

3 = Neutral (Neither Satisfied Nor Dissatisfied)

4 = Dissatisfied

5 = Very Dissatisfied

1. The workshop outcomes were achieved as per my expectations.

1۔ ورکشاپ کے نتائج میری توقعات کے مطابق حاصل ہوئے۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
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2. This workshop contributed in my personal and professional skill development.

2۔ اس ورکشاپ نے میری ذاتی اور پیشہ ورانہ مہارت کی ترقی میں اضافہ کیا۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
--	--	--------------------------------------	---	--

3. Moral & Islamic values were observed during the workshop.

3۔ ورکشاپ کے دوران اخلاقی اور اسلامی اقدار کو ملحوظ خاطر رکھا گیا۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
--	--	--------------------------------------	---	--

4. Trainer exhibited mastery over content and presentation.

4۔ ٹرینر نے بہترین طریقے سے نرینگ کے مواد کو پیش کیا۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
--	--	--------------------------------------	---	--

5. Venue and facilities were adequate and comfortable.

5۔ نرینگ کا مقام اور سہولیات مناسب اور آرام دہ تھیں۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
--	--	--------------------------------------	---	--

6. Overall, I enjoyed the workshop and it was the best utilization of my time.

6۔ میں مجموعی طور پر اس ورکشاپ سے لطف اندوز ہوا اور یہ میرے وقت کا بہترین استعمال تھا۔

(1) <input checked="" type="checkbox"/> Very Satisfied	(2) <input type="checkbox"/> Satisfied	(3) <input type="checkbox"/> Neutral	(4) <input type="checkbox"/> Dissatisfied	(5) <input type="checkbox"/> Very Dissatisfied
--	--	--------------------------------------	---	--

Comments/Suggestions by Participant:

I am very thankful to those who manage these beautiful training for science teachers and good.

**CONTROLLED DOCUMENT**  
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Signature:



## 14.2 Annexure

### MERGED AREAS EDUCATION FOUNDATION (MAEF)

#### TRAINING WORKSHOP ON "EFFECTIVE TEACHING OF SCIENCE SUBJECTS"

#### LIST OF PARTICIPANTS

JUNE 08-11. 2023

S.No.	Name of Participant	Designation	Name of School	District
1	Tariq Jameel	Science Teacher	Army Public School, Kanigurram	South Waziristan
2	Jamshid Khan	Science Teacher	Governor Model School Sadda	Kurram
3	Hassan Khan	Science Teacher	Governor Model School Sadda	Kurram
4	Karishma Bibi	Science Teacher	Governor Model School Sadda	Kurram
5	Sadia	Science Teacher	Governor Model School Sadda	Kurram
6	Tariq Aziz	SST (Science)	Governor Model School Mamad Gat	Mohmand
7	Muhammad Ikram	SST (Science)	Governor Model School Mamad Gat	Mohmand
8	Mr.Younas	Science Teacher	Army Public School, Sadda	Kurram
9	Mr. Ihsan	Science Teacher	Army Public School, Sadda	Kurram
10	Mr.Firdous	Science Teacher	Army Public School, Sadda	Kurram
11	Mr.Rafi ullah	Science Teacher	Army Public School, Sadda	Kurram
12	Ms.Hashma	Science Teacher	Army Public School, Sadda	Kurram
13	Saif Ullah	Science Teacher	Tahir Iqbal Shaheed APSACS Lkl	Khyber
14	Jan Musaddiq Ullah	Science Teacher	Tahir Iqbal Shaheed APSACS Lkl	Khyber
15	Sajid Khan	Science Teacher	Tahir Iqbal Shaheed APSACS Lkl	Khyber
16	Kashif Khan	Science Teacher	Tahir Iqbal Shaheed APSACS Lkl	Khyber
17	Rizwan Ullah	Science Teacher	Tahir Iqbal Shaheed APSACS Lkl	Khyber
18	Mr Ali Asghar	SST (Bio)	Govenor Model School & College for Girls & Boys (Civil Colony - Khar)	Bajaur
19	Mr Nasrullah	SST (Chemistry)	Govenor Model School & College for Girls & Boys (Civil Colony - Khar)	Bajaur
20	Ms Sayyeda Marina	SST (Botany)	Govenor Model School & College for Girls & Boys (Civil Colony - Khar)	Bajaur
21	Mr. Qarib Ullah	SST (Physics)	Govenor Model School & College for Girls & Boys (Civil Colony - Khar)	Bajaur



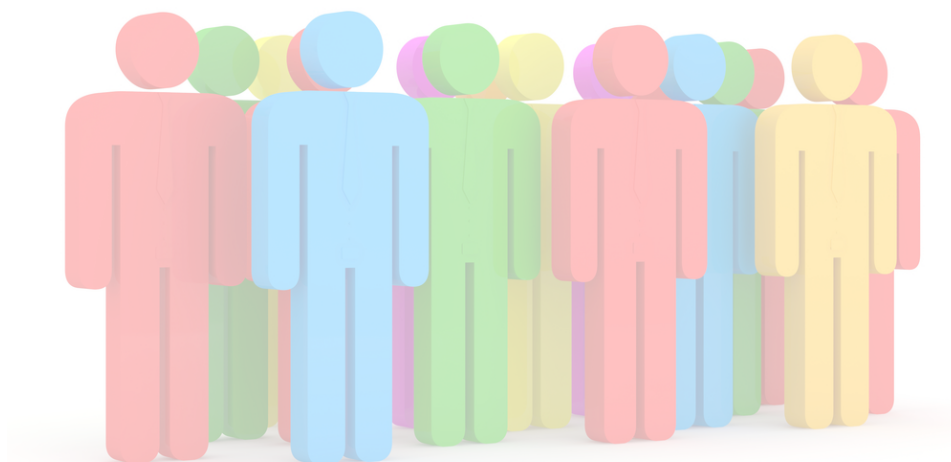
**MERGED AREAS EDUCATION FOUNDATION (MAEF)**  
**TRAINING WORKSHOP ON " EFFECTIVE TEACHING OF SCIENCE SUBJECTS"**  
**LIST OF PARTICIPANTS**  
**JUNE 08-11. 2023**

S.No.	Name of Participant	Designation	Name of School	District
22	Shah Khalid	Science Teacher	Governor Model School Ghallanai	Mohmand
23	Syed M Javed Shah	Science Teacher	Governor Model School Ghallanai	Mohmand
24	Muhammad Asim	CT	Governor Model School, Tank	South Waziristan
25	Saif ur Rehman	SST	Governor Model School, Tank	South Waziristan
26	UBAID UR RAHMAN	SST	GOVERNOR MODEL SCHOOL FOR BOYS, KHAR	BAJAUR
27	HAKIM SAID	CT	GOVERNOR MODEL SCHOOL FOR BOYS, KHAR	BAJAUR
28	SARDAR HUSSAIN	CT	GOVERNOR MODEL SCHOOL FOR BOYS, KHAR	BAJAUR
29	MUHAMMAD WAHAB	CT	GOVERNOR MODEL SCHOOL FOR BOYS, KHAR	BAJAUR
30	Aslam Noor	Science Teacher High Section	Governor's Model School Miranshah	North Waziristan
31	Saeed Hassan	Science Teacher Lower Section	Governor's Model School Miranshah	North Waziristan
32	Syed Ishfaq	Science Teacher	Governor Model School, Parachinar	Kurram
33	Syed Muhammad Saqlain	Science Teacher	Governor Model School, Parachinar	Kurram
34	JAFFAR HUSSAIN	SCIENCE TEACHER	Governor Model School	South Waziristan
35	Bahadar Zaib	Science Teacher	FCPS&C, Khar	Bajuar
36	Zia Ur Rahman	Science Teacher	FCPS&C, Khar	Bajuar
37	Abid Jan	Science Teacher	FCPS Ghalanai	Mohmand



**MERGED AREAS EDUCATION FOUNDATION (MAEF)**  
**TRAINING WORKSHOP ON " EFFECTIVE TEACHING OF SCIENCE SUBJECTS"**  
**LIST OF PARTICIPANTS**  
**JUNE 08-11. 2023**

S.No.	Name of Participant	Designation	Name of School	District
38	Muhammad Fayaz	Science Teacher	FCPS Ghalanai	Mohmand
39	Khalid Jan	Science Teacher	FCPS Ghalanai	Mohmand
40	Obaid Ullah	Science Teacher	FCPS Ghalanai	Mohmand
41	Syed Azmat Ullah	Science Teacher	FCPS&Cs Fort Salop	Khyber
42	Ihsan Ullah	Science Teacher	FCPS&Cs Fort Salop	Khyber
43	Yasin Muhammad	Science Teacher	FCPS Lkl	Khyber
44	Adnan Hassan	Science Teacher	FCPS Lkl	Khyber
45	Muhammad Waqar Shah	Science Teacher	FCPS Lkl	Khyber
46	Iftihar Ahmad	Science Teacher	FCPS OS	Orakzai
47	Ghos Ali Shah	Science Teacher	FCPS OS	Orakzai





# 14.3 Annexure

## MAEF - AFAQ

### Effective Teaching of Science Subjects

### Agenda

#### Day 1 (8<sup>th</sup> June, 2023 - Thursday)

Time	Activity	Guest/Resource Person
8:30am to 9:40am	Participants' Expectations and Norms Setting	Mr. Amir Zeb
9:41am to 10:10am	Inauguration and Introduction Session	Dr Shoukat Hayat DMD MAEF
10:11am to 10:30am	Intro of Topic and Learning Outcomes	Mr. Rehmat Panah
10:31am to 11:00am	Tea Break	
11:01 to 1:00pm	Teaching of Science (With Special Focus on Teaching of Chemistry)	Mr. Rehmat Panah
1:01pm to 2:00pm	Lunch	
2:01pm to 4:00pm	Practice Session/Activity	Mr. Rehmat Panah

#### Day 2 (9<sup>th</sup> June, 2023 - Friday)

Time	Activity	Guest/Resource Person
8:30am to 9:00am	Recap Day-2	Mr. Rehmat Panah
9:00am to 10:30am	Teaching of Science (With Special Focus on Teaching of Physics)	Mr. Muhammad Ajmal
10:31am to 11:00am	Tea Break	
11:01am to 1:00pm	Practice Session/Activity	Mr. Muhammad Ajmal
1:01pm to 2:00pm	Lunch	
2:01pm to 4:00pm	Classroom Management	Mr. Muhammad Ajmal

#### Day 3 (10<sup>th</sup> June, 2023 - Saturday)

Time	Activity	Guest/Resource Person
8:30am to 9:00am	Recap Day-3	Mr. Muhammad Ajmal
9:00am to 10:30am	Teaching of Science (With Special Focus on Teaching of Biology)	Mr. Adnan Amin
10:31am to 11:00am	Tea Break	
11:01am to 1:00pm	Practice Session/Activity	Mr. Adnan Amin
1:01pm to 2:00pm	Lunch	
2:01pm to 4:00pm	SLO Based Teaching	Mr. Adnan Amin

#### Day 4 (11<sup>th</sup> June, 2023 - Sunday)

Time	Activity	Guest/Resource Person
8:30am to 9:00am	Recap Day-4	Mr. Adnan Amin
9:00am to 10:30am	Group Presentations	Trainees
10:31am to 11:00am	Feedback	MAEF & AFAQ
11:00am to 12:00pm	Action Plan Making	MAEF & AFAQ
12:01am to 01:00pm	Closing Ceremony	Dr. Shoukat Hayat DMD MAEF

# AFAQ's Training Services at a Glance

