

ALVA'S INSTITUTE OF ENGINEERING
AND TECHNOLOGY, MOODBIDRI



TKM MOU
Activity Report
2022-23

10 DAYS TRAINING PROGRAM

Alva's Institute of Engineering and Technology, Moodbidri



TKM MOU ACTIVITY REPORT ON 10 DAYS TRAINING PROGRAM 2022-23

TKM TRAINING REPORT

Name of training	Fundamentals in Automobiles
Hosting Institute	Toyota Technical Training Institute C/o Toyota Kirloskar Motor Pvt Ltd.,
Location	Plot No.1, Bidadi Industrial Area, Ramanagar District, Karnataka – 562109
No. of days and Dates	10 days from April 03 rd -14 th , 2023
Training Co-ordinator	Mr. Kumar Swamy M C
Faculty in-charge	Mr. Sharathchandra Prabhu



Introduction: This training was developed by the Toyota Technical Training Institute C/o Toyota Kirloskar Motor Pvt Ltd., for final year Mechanical Engineering students of Alva's Institute of Engineering and Technology, Moodabidri. This program is presented as a framework of enhancing knowledge of final year mechanical students in dismantling and assembly of vehicle engine, applications of limits and fits, hands on experience of welding processes. This training is mainly focussed on improving students' industrial knowledge, skills and professional qualities appropriate to new technology needs of industry scenario.

Training objectives:

- Familiarize/Refresh students' knowledge about the basic concepts, principles, components and approaches to limits, fits and tolerance.
- Highlight the importance of Limits, fits and tolerance and their role in manufacturing.
- Hands on experience of Dismantling and assembly of diesel engine and to know applications of all parts used in engine.
- To know the different tools usage for Dismantling and assembly of automobile systems.
- Hands on experience of various welding processes used in automobile industry.
- To understand the best practices of quality and Toyota Production System involved in Toyota Kirloskar Motor Pvt. Ltd.

Training Team: Members involved in training were

Mr. Bhaskar Singh, Officer and Trainer TKM Bengaluru
Mr. Venkatesh Kasi, Coordinator and Trainer TKM Bengaluru
Mr. Kiran Kumar H P, Trainer TKM Bengaluru
Mr. Dinesh A, Trainer TKM Bengaluru
Mr. Ram Prasad, Trainer TKM Bengaluru

TKM Training Programme

This programme was opened up with a welcoming all participants and faculty of AIET to Toyota Technical Training Institute. Mr. Bhaskar Singh mentioned about the significance of MOU between TKM and AIET. He also mentioned that students' learning must fill up the gap between industry and institute learning. He motivated all participants to attend all sessions sincerely to learn basic concepts, principles, components and approaches to limits, fits and tolerance. Hands on experience of Dismantling and assembly of diesel engine and to know applications of all parts used in engine and he mentioned about the different tools used for dismantling and assembly of automobile systems. Further

he requested to have hands on experience of various welding processes used in automobile industry and to understand the best practices of quality and Toyota Production System involved in Toyota Kirloskar Motor Pvt. Ltd. Mr. Bhaskar Pai, vice Principal had described the importance of training and he motivated all participants to actively take part in all sessions and he requested everyone to do not go back with any of the doubts related to this training as well as Toyota company. After the addressing from Bhaskar Pai and Bhaskar Singh, students were engaged with training sessions as per the schedule. In this 10 days of training, total 25 students were participated and benefitted from the TKM training.

In these 10 days of training, students also learnt about how to improve our skills, how to produce quality products in shorter time, how to manage ourself in given time, also learnt about Toyota culture, discipline, morning exercises, the way of respecting people and many more...

As per the schedule, students visited Production Plant no.1 to know about manufacturing of Toyota's Innova and Fortuner vehicles. Students also visited Toyota Eco Park and learnt about different plants, how raw material can be converted into good product and etc.

On last day of training, conclusion session was conducted, during this session Mr. Bhaskar Pai have appreciated all participants for their sincere learning, discipline maintained in Toyota campus, also he took feedback from all participants regarding training, facilities (Stay, food, transportation) provided by the company. Bhaskar Singh, Trainer had requested all participants to do not stop learning, learning is continuous process. Few participants expressed their feedback about the training. Mr. Sadashiv Bellubbi, Assistant Professor, Department of Mechanical Engineering, AIET thanked all trainers, coordinators, HoD, Principal and management of both TKM and AIET for arranging very informative training to Mechanical final year students.

The programme overall was the feather in the cap and it was a milestone for the students to know about vehicles, it will surely helpful while attending the interviews. The department is always known for giving its quality education and making the students learn through practical sessions.



Mr. Kiran Kumar, Trainer given hands on experience of Dismantling and Assembly of Gasoline Engine by participants



Students understanding about Toyota Training Technical Institute (TTTi) Functions

TRAINING PLAN ALVA'S Students - [10 Days x 24 students]

Days	Areas of Training	Details	8.30AM to 11.00AM	10 Min	11.10AM to 1.00PM	30 Min	1.30PM to 3.30PM	10 Min	3.40 PM to 5.15PM
Day 1 (03-April-23) Monday	Toyota Best Practices	Category	Knowledge	Break time	Knowledge	Lunch Break	Visit	Break time	Knowledge
		Contents	- Inauguration - Objectives of the Activities - Presentation on TKM - Presentation on TTTI		- About Production & Manufacturing - Types of Manufacturing process - Customer Expectations in Manufacturing - Surface Roughness & its Parameters.		- About TPS - Learning game using TPS approach		- Learning game using TPS approach - Q & A Sessions.
		Responsibility	B Singh		B Singh		Arun Kumar		Arun Kumar
		Venue	Class room 1		Class room 1		TR 1 - Gurukul 1st floor		TR 1 - Gurukul 1st floor
Day 2 (04-April-23) Tuesday	Automobile Technology [Gasoline engine]	Category	Theory	Break time	Theory	Lunch Break	Practical	Break time	Practical
		Contents	- Major vehicle Components - Major parts of gasoline engine - Valve mechanism 4 Stroke of an engine - Total engine displacement		- Vehicle Mechanism - VVTI mechanism - Cylinder arrangement		- Familiarization of skill dojo Infra and tools - Team formation - Tools familiarization		- Familiarization of skill dojo Infra and tools - Work table confirmation - Abnormality management - Basic discipline of shop floor
		Responsibility	Kiran		Kiran		Kiran		Kiran
		Venue	Class room 1		Class room 1		Assemblyshop@TTTI		Assemblyshop@TTTI
Day 3 (05-April-23) Wednesday	Automobile Technology [Gasoline engine]	Category	Theory	Break time	Practical	Lunch Break	Practical	Break time	Practical
		Contents	- Vehicle Systems - Difference between petrol & diesel engine - Auxiliary system of an engine - Purpose of Lubrication system - Engine oil & specification		- Gasoline Engine Dismantling - Safety & Quality Key points - Removing of radiator - Removing of Wiring harness		- Gasoline Engine Dismantling - Removing of Intake & exhaust manifold - Removing of Different pulleys		- Gasoline Engine Dismantling - Overhauling of valve - Removing of camshaft
		Responsibility	Kiran		Kiran		Kiran		Kiran
		Venue	Class room 1		Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI
Day 4 (06-April-23) Thursday	Automobile Technology [Gasoline engine]	Category	Theory	Break time	Practical	Lunch Break	Practical	Break time	Practical
		Contents	- Gasoline Engine Dismantling - Removing of cylinder head - Re-assembly of crankshaft - Re-assembly of piston - Re-assembly of clutch unit		- Gasoline Engine Assembling - Assembling of piston - Re-assembly of crankshaft - Re-assembly of cylinder head - Re-assembly of clutch unit		- Gasoline Engine Assembling - Overhauling of valve - Re-assembly of camshaft - Re-assembly of Different pulleys - Assembling engine Components		- Gasoline Engine Assembling - Assembling of Engine components
		Responsibility	Kiran		Kiran		Kiran		Kiran
		Venue	Assemblyshop@TTTI		Class room 1		Assemblyshop@TTTI		Assemblyshop@TTTI
Day 5 (07-April-23) Friday	Quality & Best Practices	Category	Visit	Break time	Practical	Lunch Break	Visit	Break time	Practical
		Contents	- Gurukul Visit - Safety Dojo Explanation - FST Explanation		- Basic about Quality - Inspection skills and its target - Best Practices on Built in Quality		Eco Park Visit		QLC Visit (Quality assurance center)
		Responsibility	Venkaresh K		Venkaresh K		Venkaresh K		Venkaresh K
		Venue	Gurukul		Quality Shop		Eco Park Visit		QAD
Day 6 (08-April-23) Saturday	Automobile Technology [Gasoline engine]	Category	Practical	Break time	Practical	Lunch Break	Practical	Break time	Practical
		Contents	Continuation of Activities related to Engine Assembly & Dis assembly		Continuation of Activities related to Engine Assembly & Dis assembly		- Gasoline Engine Assembling - Assembling of Engine components		- Gasoline Engine Assembling - Assembling of Engine components
		Responsibility	Kiran		Kiran		Kiran		Kiran
		Venue	Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI
Day 7 (10-April-23) Monday	Applications of Limits, Fits, Tolerance	Category	Theory	Break time	Theory	Lunch Break	Theory	Break time	Theory
		Contents	- Problems on Limits, Fits & Tolerancing - Case Studies		Interpretation of Technical Drawings.		Interpretation of Technical Drawings.		- Plant Tour. - Visit of Plant 01 production unit.
		Responsibility	B Singh / Dinesh A		B Singh / Dinesh A		B Singh / Dinesh A		Venkaresh K
		Venue	Class room 1		Class room 1		Assemblyshop@TTTI		Plant Tour
Day 8 (11-April-23) Tuesday	Applications of Limits, Fits, Tolerance	Category	Theory	Break time	Theory	Lunch Break	Theory	Break time	Theory
		Contents	Case Studies on Limit System		Case Studies on Limit System		Exercises on Limits, Fits & Tolerancing.		- About TTTI - TTTI tour - Visit to All shops - World Skills Competition
		Responsibility	B Singh / Dinesh A		B Singh / Dinesh A		B Singh / Dinesh A		B Singh / Dinesh A
		Venue	Class room 1		Class room 1		Classroom 1		TTTI
Day 9 (12-April-22) Wednesday	Automobile Technology [Transmission & Differential]	Category	Practical	Break time	Practical	Lunch Break	Practical	Break time	Practical
		Contents	Automobile Transmission Systems & Differential System		- Dismantling of Transmission System - Removal of bell assy, Shift inter lock, Shift lever and case cover sub assy.		- Dismantling of Transmission System - Removal of Out put shaft, shift fork and clutch hub		- Assembling of Transmission System - Assembling of shift lever shaft, lock ball, detent ball and snap ring, clutch Hub, shift fork and case cover
		Responsibility	Kiran		Kiran		Kiran		Kiran
		Venue	Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI
Day 10 (13-April-22) Thursday	Automobile Technology [Transmission & Differential]	Category	Practical	Break time	Practical	Lunch Break	Practical	Break time	Practical
		Contents	- Dismantling of Differential System - Removal of all major parts		Assembling of Differential system		Assembling of Differential system		Conclusion & Closing Ceremony
		Responsibility	Kiran		Kiran		Kiran		B Singh & Venkaresh K
		Venue	Assemblyshop@TTTI		Assemblyshop@TTTI		Assemblyshop@TTTI		Class room 1



Kumar Swamy <mckswamy@alet.org.in>

TKM Training 10 Days | ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY ||

7 messages

K VENKATESH(TKM) <Venki@toyota-kirloskar.co.in>

Tue, Feb 28, 2023 at 3:12 PM

To: Kumar Swamy <mckswamy@alet.org.in>

Cc: "BHASKAR PAI(TKM)" <bhaskarpai@toyota-kirloskar.co.in>, "B BHASKAR SINGH(TKM)" <bhaskar_singhB@toyota-kirloskar.co.in>, "H P KIRAN KUMAR(TKM)" <kirankumar_hp@toyota-kirloskar.co.in>, "K ANAND(TKM)" <anandk@toyota-kirloskar.co.in>, "M V ROOPESH KUMAR(TKM)" <RoopeshKumar@toyota-kirloskar.co.in>

Dear Kumar Swamy san,

Greeting for the day!

Thank you for you continuous support towards training activities.

W.r.t above mentioned subject, also as per our phonic discussion find the below tentative dates from our end.

	Dates	
	Strat	End
	From	To
Option 1	03-04-2023	13-04-2023
Option 2	10-04-2023	20-04-2023

Female candidates staying at TTTI dormitory is not permitted.

I will share the complete curriculum once the date is freeze.

For any clarification revert me.

Thanking you!

With regards

VENKATESH K

Toyota Technical Training Institute

Toyota Learning & Development India,


PRINCIPAL
Alva's Institute of Engg. & Technology
Major. MOODBIDRI - 574 2251 B.M

23, 12:10 PM

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY Mail - TKM Training 10 Days | ALVA'S INSTITUTE OF ENGINEE...

Toyota Kirloskar Motor Pvt. Ltd.

Plot No.1, Bidadi Industrial Area.

Ramanagar District. Pin - 562 109.

Tel: 080 6629 2466 / 2533

Mobile- 9886625446

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Tue, Feb 28, 2023 at 8:23 PM

Kumar Swamy <mckswamy@aiet.org.in>

To: "Dr. Satyanarayan" <satyaa.aiet@aiet.org.in>, SRINIVASA C <srinivasa@aiet.org.in>

[Quoted text hidden]

Wed, Mar 8, 2023 at 7:21 AM

Kumar Swamy <mckswamy@aiet.org.in>

To: "K VENKATESH(TKM)" <Venki@toyota-kirloskar.co.in>

Cc: "BHASKAR PAI(TKM)" <bhaskarpai@toyota-kirloskar.co.in>, "B BHASKAR SINGH(TKM)" <bhaskar_singhB@toyota-kirloskar.co.in>, "H P KIRAN KUMAR(TKM)" <kirankumar_hp@toyota-kirloskar.co.in>, "K ANAND(TKM)" <anandk@toyota-kirloskar.co.in>, "M V ROOPESH KUMAR(TKM)" <RoopeshKumar@toyota-kirloskar.co.in>, Alvas Moodbidri <placement.alvas@gmail.com>, SRINIVASA C <srinivasa@aiet.org.in>, Sushanth Anil Lobo <lobosushanth8@alvas.org>, "Dr. Satyanarayan" <satyaa.aiet@aiet.org.in>, AVINASH <finance@aiet.org.in>

Dear Sir

Greetings of the Day!!

In continuation of our telephonic conversation, we are confirming the training schedule from 3rd to 13th April 2023.
Duly signed application will be send in due time.

[Quoted text hidden]

THANK YOU AND REGARDS

MR.KUMARASWAMY M C
ASST.PROF/PLACEMENT LEAD
||DEPARTMENT OF MECHANICAL ENGINEERING ||
|| DEPARTMENT OF TRAINING & PLACEMENT ||
EMAIL ID: raghu.mck@gmail.com
CONTACT NO:- 09741440490

Wed, Mar 8, 2023 at 10:57 AM

K VENKATESH(TKM) <Venki@toyota-kirloskar.co.in>

To: Kumar Swamy <mckswamy@aiet.org.in>

Cc: "BHASKAR PAI(TKM)" <bhaskarpai@toyota-kirloskar.co.in>, "B BHASKAR SINGH(TKM)" <bhaskar_singhB@toyota-kirloskar.co.in>, "H P KIRAN KUMAR(TKM)" <kirankumar_hp@toyota-kirloskar.co.in>, "K ANAND(TKM)" <anandk@toyota-kirloskar.co.in>, "M V ROOPESH KUMAR(TKM)" <RoopeshKumar@toyota-kirloskar.co.in>, Alvas Moodbidri <placement.alvas@gmail.com>, SRINIVASA C <srinivasa@aiet.org.in>, Sushanth Anil Lobo <lobosushanth8@alvas.org>, "Dr. Satyanarayan" <satyaa.aiet@aiet.org.in>, AVINASH <finance@aiet.org.in>

Dear Kumar Swamy san,

Greeting for the day!

Thank you for your continuous support towards training activities.

W.r.t above mentioned subject, also as per our phonic discussion find the attachment of training curriculum for 10 days [content on **Basic Automotive technology, Practical's on Transmission and Differential**].

Regarding below trailing mail, kindly share total participants details and candidates staying at TTTI dormitory.

For any clarification revert me.

Thanking you!

With regards

Venkatesh K

Toyota Technical Training Institute

Toyota Kirloskar Motor Pvt. Ltd
Plot no 1, Bidadi Industrial Area,
Ramanagar District - 562 109
Direct line : 080 6629 2533,
E-mail : venki@toyota-kirloskar.co.in
Website : www.toyotabharat.com

From: Kumar Swamy <mckswamy@aiet.org.in>
Sent: 08 March 2023 07:21
To: K VENKATESH(TKM) <Venki@toyota-kirloskar.co.in>
Cc: BHASKAR PAI(TKM) <bhaskarpai@toyota-kirloskar.co.in>; B BHASKAR SINGH(TKM) <bhaskar_singhB@toyota-kirloskar.co.in>; H P KIRAN KUMAR(TKM) <kirankumar_hp@toyota-kirloskar.co.in>; K ANAND(TKM) <anandk@toyota-kirloskar.co.in>; M V ROOPESH KUMAR(TKM) <RoopeshKumar@toyota-kirloskar.co.in>; Alvas Moodbidri <placement.alvas@gmail.com>; SRINIVASA C <srinivasa@aiet.org.in>; Sushanth Anil Lobo <lobosushanth8@alvas.org>; Dr. Satyanarayan <satyaa.alet@aiet.org.in>; AVINASH <finance@aiet.org.in>
Subject: Re: TKM Training 10 Days | ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY ||

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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[Quoted text hidden]

 Training curriculum 10 Day Alvas Institute (3rd Mar'23 to 13 Mar'23).pdf
63K

Kumar Swamy <mckswamy@aiet.org.in>
To: "K VENKATESH(TKM)" <Venki@toyota-kirloskar.co.in>

Sat, Mar 18, 2023 at 11:27 AM

23, 12:10 PM

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY Mail - TKM Training 10 Days | ALVA'S INSTITUTE OF ENGINEE...

Cc: "BHASKAR PAI(TKM)" <bhaskarpai@toyota-kirloskar.co.in>, "B BHASKAR SINGH(TKM)" <bhaskar_singhB@toyota-kirloskar.co.in>, "H P KIRAN KUMAR(TKM)" <kirankumar_hp@toyota-kirloskar.co.in>, "K ANAND(TKM)" <anandk@toyota-kirloskar.co.in>, "M V ROOPESH KUMAR(TKM)" <RoopeshKumar@toyota-kirloskar.co.in>, Alvas Moodbidri <placement.alvas@gmail.com>, SRINIVASA C <srinivasa@aiet.org.in>, Sushanth Anil Lobo <lobosushanth8@alvas.org>, "Dr. Satyanarayan" <satyaa.aiet@aiet.org.in>, AVINASH <finance@aiet.org.in>

Dear Sir

Greetings of the day!!

In continuation with our telephonic conversation kindly find the attached file.

[Quoted text hidden]

 TKM training 2022-23.pdf
2394K

Mon, Mar 20, 2023 at 9:41 AM

K VENKATESH(TKM) <Venki@toyota-kirloskar.co.in>

To: Kumar Swamy <mckswamy@aiet.org.in>

Cc: "BHASKAR PAI(TKM)" <bhaskarpai@toyota-kirloskar.co.in>, "B BHASKAR SINGH(TKM)" <bhaskar_singhB@toyota-kirloskar.co.in>, "K C GAJENDRA KUMAR(TKM)" <gajendra_kumarkc@toyota-kirloskar.co.in>, "M V ROOPESH KUMAR(TKM)" <RoopeshKumar@toyota-kirloskar.co.in>, "H P KIRAN KUMAR(TKM)" <kirankumar_hp@toyota-kirloskar.co.in>

Dear Sir,

Greetings for the day!

In continuation to below email we would like to share the general guidelines of TTTI.

Kindly requesting to circulate it with all the participant's and adhere to the guidelines. For smooth execution for an on-campus training program at TKM – TTTI.

Note:- Share me participants name list [excel format] which need to be printed in the training certificate.

Request to allow the above Students & do the needful.

[Quoted text hidden]

[Quoted text hidden]

 General Guidelines of TTTI.docx
64K

Tue, Mar 28, 2023 at 3:32 PM

Kumar Swamy <mckswamy@aiet.org.in>

To: "K VENKATESH(TKM)" <Venki@toyota-kirloskar.co.in>

Dear Sir

Greetings of the Day!!

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr/ Ms Sandeep Jarale

studying in Final Year B.E.(Mechanical Engineering) of

Alva's Institute of Engineering & Technology, Moodbidri has participated

in the course of **"Basics of Automotive Technology"**

conducted by **Toyota Kirloskar Motor Pvt Ltd**

on **03rd to 13th of April 2023** at Bidadi plant, Bangalore.



Venkatesh

K R VENKATESHA

Deputy General Manager
Toyota Learning & Development India
Human Resources and Services Group

23, 12:10 PM

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY Mail - TKM Training 10 Days | ALVA'S INSTITUTE OF ENGINE...

In continuation with our telephonic conversation, kindly find the attached file regarding participants list.

Prof. Sharathchandra Prabhu (Mob: 8073758195) will coordinate for further process.

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Student List TKM Training.xlsx

10K