



Certificate No:  
64479/A/0001/UK/En



KEMNAKER



SKT No:  
0771/SKT-02/DMT/2014

# INHOUSE TRAINING TPM

**PT. TUFFINDO NITTOKU AUTONEUM**

069/STM/ES/VI/24

## WHY **SENTRAL SISTEM CONSULTING**



Sentral Sistem Consulting are constantly developing unique solutions to find specific results for different challenges and requirements



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# Our Services



# Our Achievements



More than  
**900 Clients**  
all over Indonesia



Continue growing  
and developing  
**Since 1999**



Consistently  
**Sharing Knowledge**  
on various platforms



Experienced on  
**Handling BUMN**  
and Multinational  
company



Consulting more than  
**60% Automotive**  
Industry in Indonesia  
for IATF Certification



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## TPM – Total Productive Maintenance PENGHANTAR

TPM is not just a professional maintenance approach but also a cultural transformation programme.

1. **TPM concept**, secara mendasar di-develop untuk menunjang **concept: JIT – Just In Time**  
>> *You can't be lean if you don't have reliable equipment*
2. **TPM concept menerapkan: Total Participation from top management to shop floor**
3. **TPM relevan dengan pendekatan: Root Cause Analysis and Elimination** yang berkelanjutan (dinamis)
4. **TPM memiliki proporsi fokus pada Prevention Philosophy:**
  - *Autonomous Maintenance*
  - *Visual Controls*
  - *Kaizen Approach*
5. **TPM adalah pendekatan yang berbasis metric yang obyektif: to evaluate the effectiveness of your TPM improvements.**  
Seperti: **OEE, MTBF, MTTR**

### TPM **KEY-Attitude**

"We are all responsible for our equipment."



Management... Operators ... Maintenance...  
Engineer ...**EVERYONE**

## Training/Workshop/Tech.Discussion content and approach

1. Pada tahap awal training/diskusi/workshop, memberikan penekanan khusus terkait hal-hal dasar terkait pengertian TPM serta **MANFAAT KONKRIT** dari penerapan/adopsi TPM
2. Dilanjutkan, penjelasan tentang: *TPM definition, elements overview, tools & expectations – Maintenance Score*
3. **Continous TPM Improvemen Metric**
4. **Detail penjelasan: OEE definition & calculation**
5. **Bagaimana developing dan melakukan Set-up:**
  1. *Daily (TPM) Walk Around – Checklist*
  2. *Pengukuran: TPM Progressive Level of Improvement*
  3. *OEE Goals – dynamic & sustain*
  4. *TMP team*



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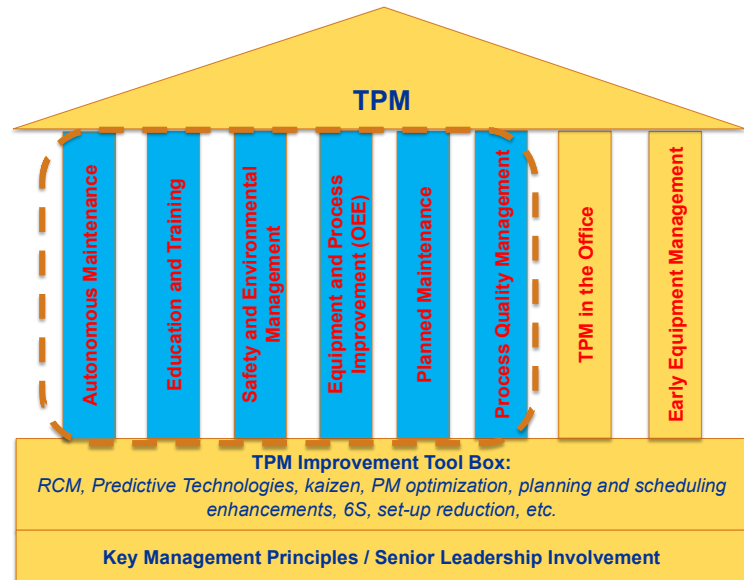
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## Tema/tool/elemen KUNCI dari TPM

- Autonomous Maintenance
- Visual Controls
- 6s
- Utilize Predictive Technologies • Reliability Centered Maintenance (RCM) • Mistake Proofing
- Set-up Reduction
- Understanding your downtime losses (OEE, Loss Tree, etc) • Return equipment and workplace to “ideal conditions”
- Workshops
- Kaizen...small continuous improvements

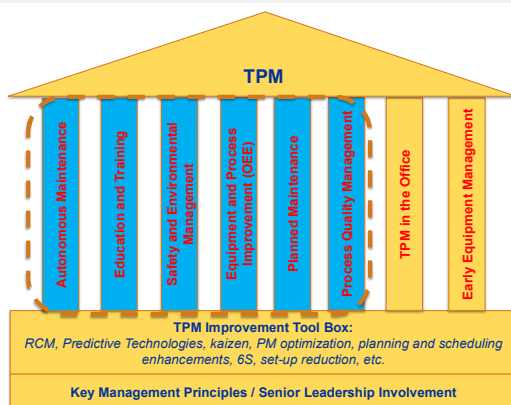


## Langkah-langkah – GENERAL Penerapan TPM

TPM berfokus pada:

1. Zero Accidents
2. Zero Break-Downs
3. Zero Defects

Misi setiap pilar adalah mengurangi kerugian (dari aspek mikro) dengan tujuan akhir menghilangkan seluruh kerugian-kerugian (dari perspektif: Makro)



## Langkah-langkah – DETAIL Penerapan TPM

- Establishes a common, comprehensive TPM approach
- Utilize existing mechanisms where applicable >> *Visual Boards, Accountability Processes, Operation Mechanism, etc*
- Utilize the right problem solving and improvement tools
- Requires “systematic” approaches
- Equipment optimization requires total employee involvement from top to bottom
- Leverages best practices so we can all get better in quicker fashion
- Optimize what we have before adding new equipment (Maximize ROIC)
- Ensure we are driving total organizational value





## Investasi

No	Jenis Investasi	Mandays	Jumlah Peserta	Investasi
1	Training TPM	2	20	Rp 16.000.000

\*Investasi belum termasuk PPN 11% & makan siang konsultan

**Note 2**

- Untuk biaya tersebut sudah termasuk Materi Training & E-certificate training untuk 20 peserta,
- Apabila ada penambahan peserta lebih dari 20 orang maka akan dikenakan biaya Rp 500.000/peserta per hari
- Sudah termasuk biaya transportasi dan akomodasi Trainer

Term Pembayaran

Pembayaran 100% setelah pelaksanaan Training

## Persetujuan Proposal

**PT SENTRAL TEKNOLOGI MANAGEMEN** bersedia mengadakan kerjasama lebih lanjut mengenai masalah technical dan commercial sehubungan dengan proposal ini.

Jika Pihak **PT.TUFFINDO NITTOKU AUTONEUM** setuju dengan penawaran **No.069/STM/ES/VI/24** Tanggal 25 November 2024 silahkan Bapak/Ibu menandatangani persetujuan ini dan mengembalikannya kepada kami. Kami akan mengirimkan perjanjian kontrak yang akan ditandatangani bersama.

Jakarta, 25 November 2024

Karawang ,



Erna Susanti

**PT SENTRAL TEKNOLOGI MANAGEMEN**

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**PT. TUFFINDO NITTOKU AUTONEUM**



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@sentralsistem

Erna Susanti



erna@sentralsistem.com



0812-9354-4480