

# Tunisia Polytechnic School



## Worker's internship defense:



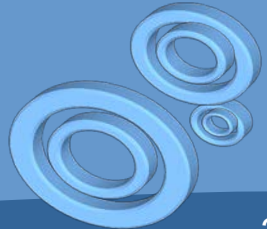
Supervisor: **Yassine AMMAR**

Presented by: **Abdoulaye TALL**

Academic Year 2010-2011

# Plan

- I. General Presentation of SETA
- II. The production process in SETA
- III. Tasks performed during the internship
- IV. Social life in SETA



# I. General Presentation of SETA (Introduction)

Creation date: August 2009

Capital: 500,000 TND

Localization:

Road of Mahdia, km 19, SFAX

Number of employees: 1240



Dräxlmaier

Parent  
Company

METS

Affiliates



Sub-contractors

# I. General Presentation of SETA (Mission)

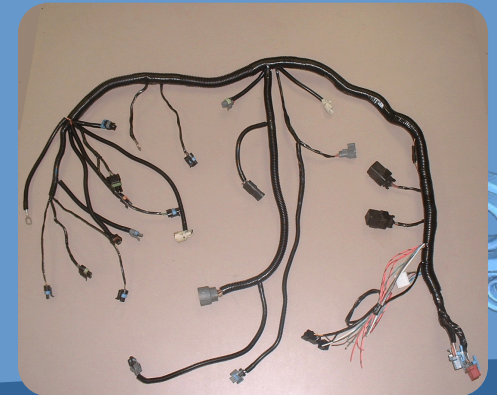
Input

Cables and  
accessories



Output

Electrical Wire  
Harnesses for  
automotive  
industry



# I. General Presentation of SETA (Departments)

## Human resources department

- Recruitment
- Training, etc

## Logistics department

- Ensure availability of raw materials
- Optimize the materials flow in the company

## Production department

- Plans the production
- Improve production process

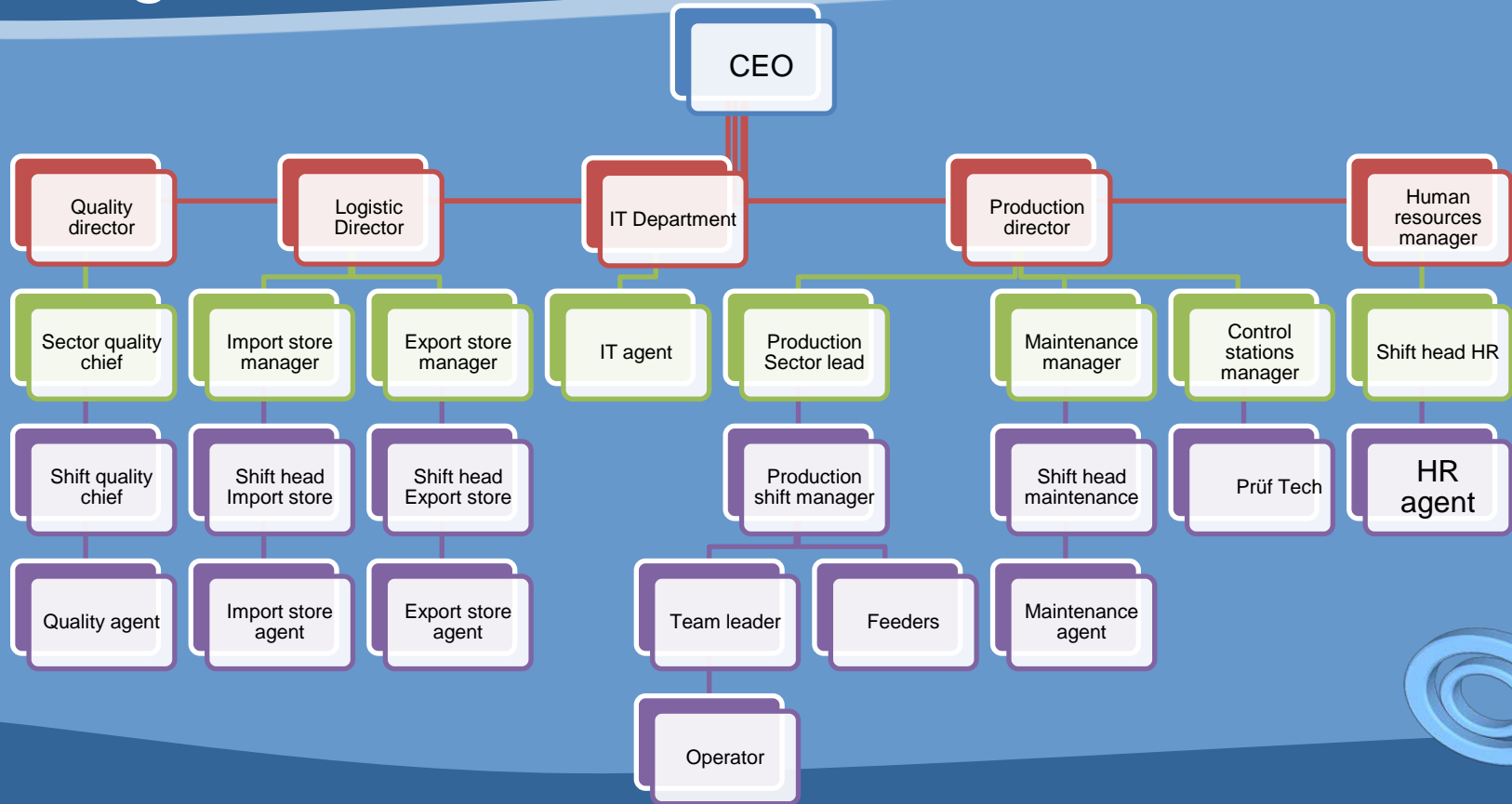
## Quality department

- Control product quality
- Improve workers' environment for efficiency

## IT department

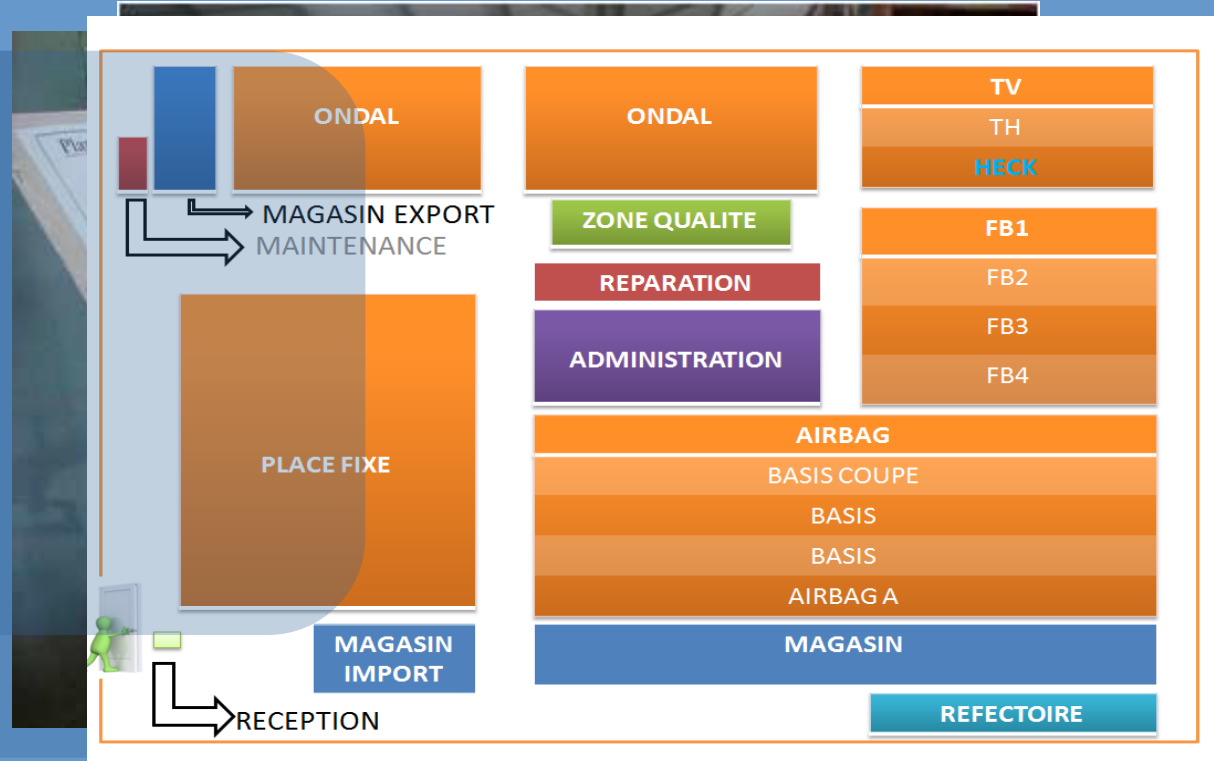
- Establish and maintain SETA's computer network
- Develop small for other departments' management tasks

# I. General Presentation of SETA (Organization Chart)



# II. The production process in SETA (Vocabulary)

- Boxes
- Jits
- Reference
- Barcode
- Baubrett
- Chariots
- Sector
- Production lines
- Fixed locations



# II. The production process in SETA (Materials flow)

Reception of raw materials



Storage



Feeding the production



Wire harnesses assembly



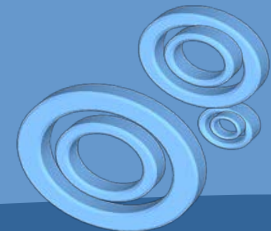
Exporting the products



100% Control



CFE Control





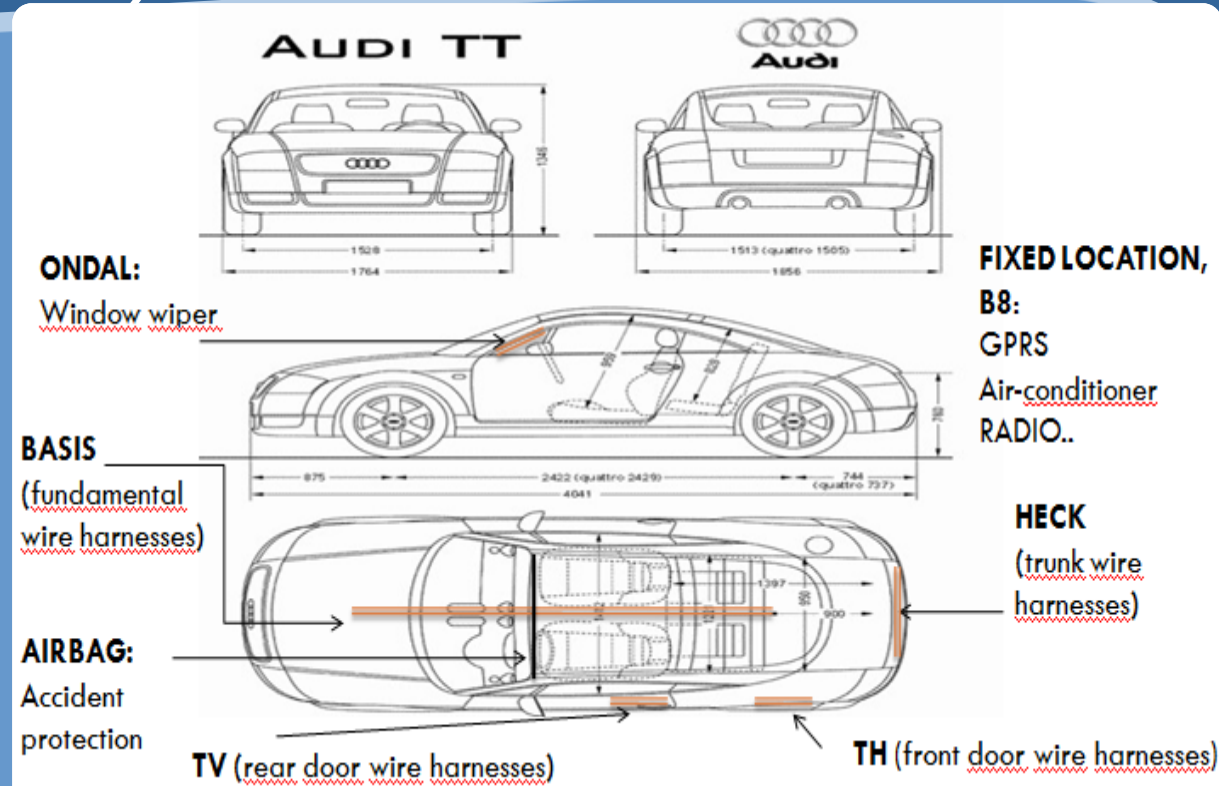
# II. The production process in SETA (List of products)

## Finished products

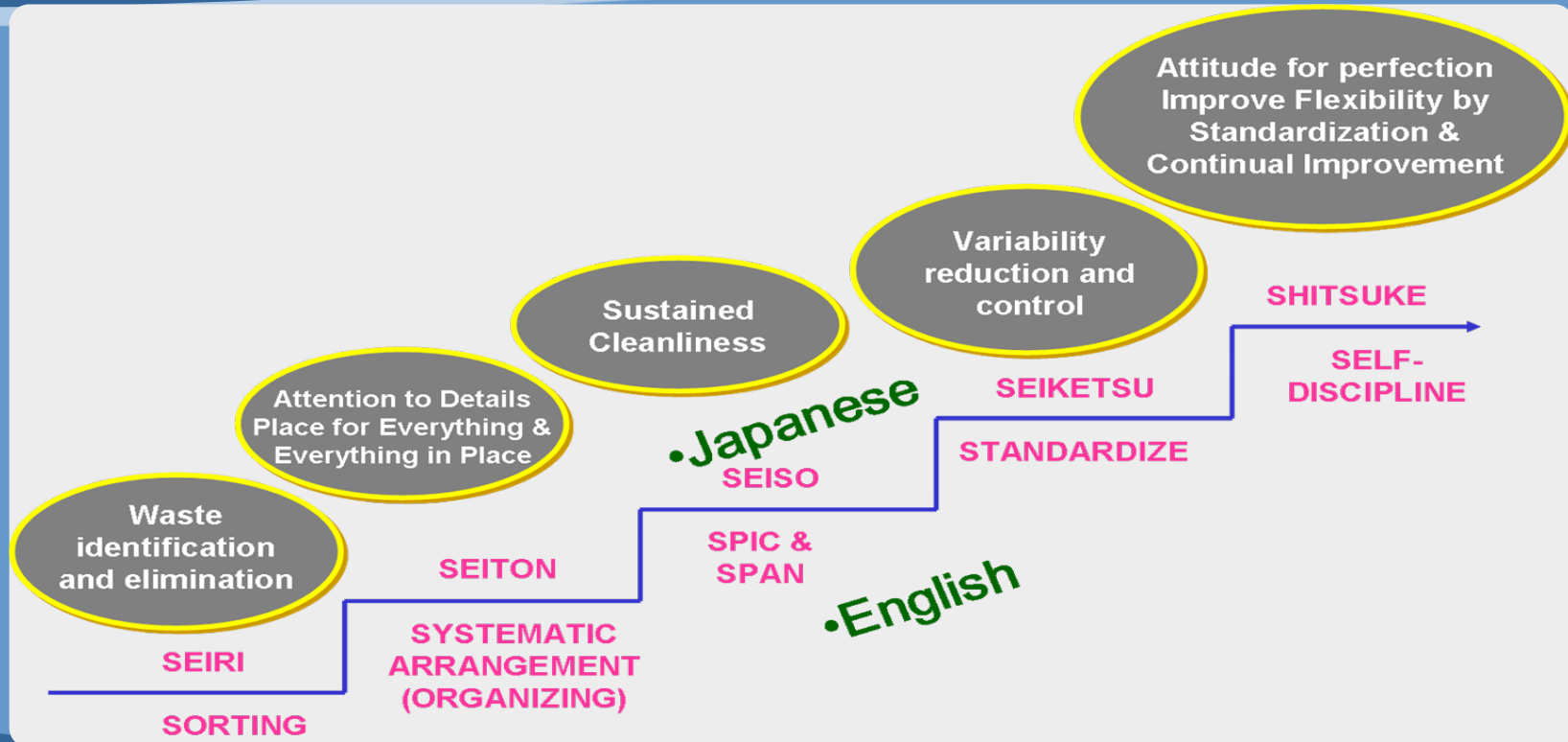
- Doors: TV and TH
- Trunk: Heck
- Ondal
- Seats

## Semi-finished

- Basis
- Airbag8
- Options: EAP-FB, B8



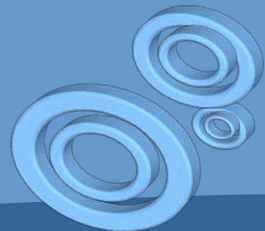
# III. Specific tasks performed - 5S (Definition)



# III. Specific tasks performed - 5S (Motivations)

## Benefits of 5S

- Greater efficiency in achieving goals
- Greater readiness for new tasks
- Fewer hazards
- Less spending on replacing lost or damaged items
- Less stress
- Greater self-esteem
- More space

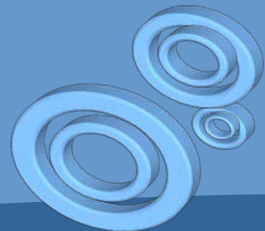
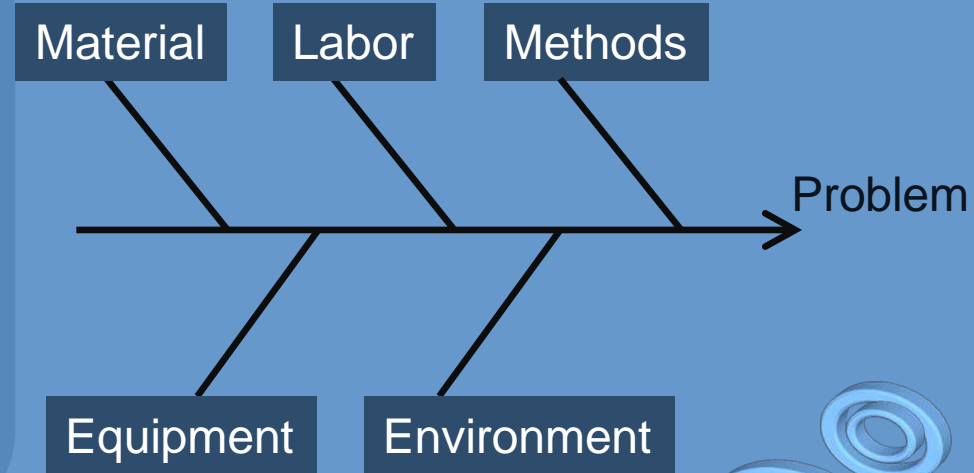


# III. Specific tasks performed - 5S

## Purpose

- Criticize the existing 5Ss audit checklist
- Add if necessary new points
- Reorganize if needed the existing points

## 5M approach



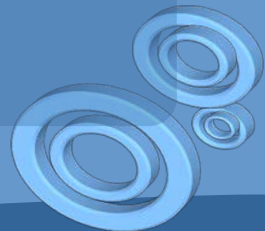
# III. Specific tasks performed – Hourly tracking of the production

## Why?

- ❖ Delay in the production
- ❖ Need to spot weak points
- ❖ Need to control continuously the production
- ❖ Need to take real time decisions

## What?

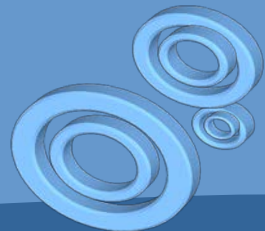
- ❖ Evaluate individual and collective efficiency every hour
- ❖ Spot reasons where there are lowest efficiencies



# III. Specific tasks performed – Hourly tracking of the production

How?

1. Note every operator's production
2. Evaluate this amount in minutes
3. Compare with real time to obtain efficiency
4. Go back to the production lines on weak points and analyze



# III. Specific tasks performed – Hourly tracking of the production

Title	Meaning	Example
<b>Product (by its reference)</b>	Identification of the product concerned	AJ1R732 5/11
<b>Time range (Minutes/Product)</b>	Minutes represented by one copy of the product	1.9
<b>Workplace</b>	Workplace where the product is assembled	31
<b>Matricule</b>	ID of the operator in charge of the product	4858
<b>Amount (QTY)</b>	Number of products assembled in the hour (6h-7h for example)	20
<b>Minutes Produced</b>	Equivalent in minutes of the amount produced = $QTY * Min / Pdt$	38
<b>Efficiency</b>	Efficiency of the operator = $Min Produced / 60mn$ (or $30mn$ for breaks)	63%

# IV. Social life in SETA

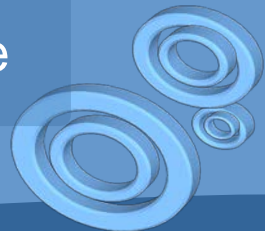
## Working hours

Administration: 08:00 am to 05:00 pm

Production: 24/24 with three shifts of 8 hours each beginning at 06:00 am

## Working days

- From Monday to Friday
- In case of delay also Saturday and even Sunday as overtime





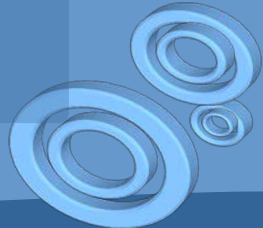
# IV. Social life in SETA

## Uniforms

- Apron required for all workers
- Different colors depending on the service (green for maintenance agents, white for quality agents, etc)

## Workers advantages

- Lunch in the company's restaurant
- Bonuses for best efficiencies



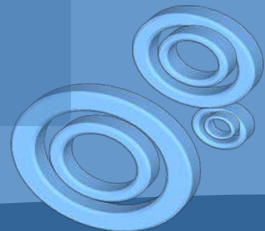
# IV. Social life in SETA

## Horizontal relationships

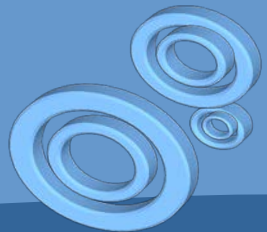
- Friendly
- Team spirit especially in production lines

## Vertical relationships

- Authoritarian
- Often strained



# Conclusion



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