

# Ford Romania Intern Program

## Internship Workplan



<b>Function Name:</b>	PTM	<b>Supervisor Name:</b>	Sergi Hervas
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<b>Assignment Location:</b>	Craiova	<b>Supervisor Position#:</b>	Assy PTM
<b>Project Description</b>			

Establish in the manual nutrunners the angle control limits based on the statistical data from the last thousands of engines tightened from January, with the objective of improve the line FTT eliminating false NOK, and establishing the angle limits accordingly with our suppliers variability, giving us better information about their capacity's and informing us when they are out of control without affecting the engine quality in Fox and Sigma.

When a new nutrunner is installed a set of basic parameters are programed based on the design intent and experience, after some thousands of engines we have enough statistic data for knowing and understanding the variability of our assembly process, in particular tightening process. As described the objective of this project is to study all bolts/nuts/studs tightening results and establish the proper control limits based on data.

### Measurable Objectives

- Collect all 100% angle limits for manual Atlas Copco Tools using Quality Worx and working together with the assembly maintenance team.
- Prepare all 100% angle results distribution for manual AC tightening equipment's using Quality Worx, excel or any other statistical program.
- Be able to prepare a report with the angle limits proposal for every single manual nutrunner.

### Expected Major Contributions

- Support the team in improving FTT and Delivery.
- Come with "fresh eyes" and new ideas

### Expected Benefits to Intern

- Get knowledge production environment, quality systems and procedures used in automotive companies.
- Cross functional exposure to a wide variety of manufacturing and business related activities.
- Be a part of a Global team working on cross functional activities and interactions.

### Intern Qualifications (schooling, work experience, major)

- Must be studying for Engineering related degree, Electric or Electronic preferred.
- Good English and MS Office skills required.
- Basic knowledge of statistics.
- Demonstrate ability to work with others in a team environment.
- Good problem solving skills & self-motivated.

### Acronyms

FTT, First Time Thru, it is a measure of quality, it is measured in % and represent how many percentage of engines has been assembled without any issue/problem during the full assembly process. Per instance 97% of 1000 engines means that 970 engines have been assembled without any issue during the whole assembly process.

Atlas Copco is a manufacturer of pneumatic, electric, automatic and manual nutrunners. AC means Atlas Copco

Quality Worx is a quality data base where all quality results/values for every engine are stored. Leak Test results, curves, values; Nutrunner results, torques, angles, etc; electric tests, etc.