

Kendra McCoy Quality Intern for Cedar Rapids plant

- ◆ Part of Schneider Electric, worldwide corporation
- ◆ Competitors: G.E., Cutler-Hammer
- ◆ Produce molded-case circuit breakers for industrial use





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Square D

Reason for project

- ◆ Many employees reaching retirement age
- ◆ Assemblies are long and complicated
- ◆ Training time could take six weeks
- ◆ Need standardized procedures to help reduce returned product due to missing parts or incorrect assembly
- ◆ Need to be in compliance with ISO 9000 standards



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Current situation

- ◆ Brief, incomplete instructions basically written to meet ISO 9000 standards
- ◆ Management has not been requiring use of the instructions
- ◆ Instructions are difficult to read and understand and many have not been updated for five to ten years



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Guidelines for Job Instruction Sheets (JIS)

- ◆ Updated so follow current procedures
- ◆ Pictures of each step
- ◆ Readable and legible for manufacturing setting
- ◆ Simple enough so that a person off the street could build a breaker with instructions alone



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Procedure for creating JIS

- ◆ Observe assembly area and familiarize self with process
- ◆ Take pictures of each step
- ◆ Insert pictures into old instructions and make necessary changes
- ◆ Add text boxes, highlights, etc. for clarification

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- ◆ Have Production Engineer, Quality Engineer, Manufacturing Engineer, and line leader review work instructions
- ◆ Make necessary revisions
- ◆ Post instructions at station

Status of Project

- ◆ Only three and a half lines left out of 20
- ◆ Will move onto molding and fabrication area when all assembly lines are finished
- ◆ On-going project with constant revisions and corrections due to part changes, assembly modifications, and new standards

Results of Project

- ◆ Mixed feelings among line workers
- ◆ Have proven to be helpful, especially for problematic lines (large number of new hires)
- ◆ Has reduced training time on some lines
- ◆ Still working with line leaders to incorporate them in the training procedure



The End

Any questions?