

HARPER INTERNATIONAL

POSITION DESCRIPTION

The Position Description is the tool used by Harper International to communicate and clarify the essential job functions, establish the basis for performance expectations, and identify training needs for each position.

Part I - Reporting Structure

Name:	Date: March 2011
Job Title: Process System Integration Engineer	Department: Engineering
Reports To: Director of Engineering	Supervises: N/A
Status: Exempt	
Completed By: JC	

Part II – Position Objective

To act as a focal point for various individual and collective system design and process integration activities. Collect and summarize project level information in a comprehensive and consistent manner. This position requires travel up to 15% travel.

Part III – Job Responsibilities

Essential Duties
1. Ensure appropriate information management of electrical elements, including: - Process Flow Diagrams - Piping and Instrumentation Diagrams - Wiring Schematics - Power Distribution Systems - Sequence of Operations - Instrument lists - Battery limits, etc.
2. Ensure appropriate information management of mechanical elements, including: - Process Flow Documents - Piping and Instrumentation Diagrams - Sequence of Operations - Utility lists - Flooring loadings - Battery limits, etc.
3. Establish process system integration documentation standards and best practices
4. Recommend and define project standards (common parts, equipment types)
5. Reinforce the consistent and disciplined use in organization

IV – Knowledge, Skills, Education

1. Bachelor's degree in Mechanical, Chemical or Electrical engineering.
2. Fully proficient at creating, developing and detailing P&ID, PFD, etc.
3. Ability to establish and mentor others in integrated systems process documentation and mentor others
4. Experienced in specialty chemical plant services design, including sizing, layouts and detailed design for piping, water distribution, control wiring schematics, thermal management, etc.
5. Experience selecting and detailing integration of instrumentation to meet specified process requirements
6. Fully proficient in 2D and 3D CAD, preferably AutoCAD and Inventor
7. Experienced as a primary participant and preferably as a leader of HAZOP events of moderate scale
8. Ability to travel up to 15% of the time

V - Work Environment

Office and plant setting

VI - Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to stand, walk, hear and talk. The employee is frequently required to sit and use hands. The employee is occasionally required to reach with hands or arms, climb or balance, stoop, kneel, crouch or crawl.