

## **I. Introduction**

This document provides information on the technical trainings provided by Imperious Technology, Inc. The document is to highlight the courses, the time allotted for the training, and the objectives covered in the training course.

## **II. Company Overview**

Imperious Technology Inc., is a software development and consulting firm that produced the first multi-user, hardware-free (no cables) SCADA Protocol Analyzer. The company provides various venues for Clients to solve their problems with Smart Solutions and through trainings to better understand the optimizations needed to get efficiency.

## **III. Training Overview**

The training was designed for company personnel interested/involved in SCADA systems to get a detailed understanding of the Protocol, its implementation and use through the I/O Servers, and how to troubleshoot issues using the Smart Protocol Analyzer.

## **IV. Course Overviews**

- **DNP Protocol (2 Days)**

The DNP (Distributed Network Protocol) course will cover the following topics:

- Day 1
  - Communications Overview
  - DNP Protocol Architecture
  - DNP CRCs
  - Data Link Layer
  - Transport Layer
  - Application Layer
  - Function Codes
  - Objects And Data Types
- Day 2
  - Class Polls
  - Event Polls
  - Start Stop Qualifiers
  - Internal Indication Bits
  - CROB and AOB
  - DNP Time stamping
  - DNP Fragmentation and Reassembly
  - DNP Troubleshooting

## V. Time and Pricing Overview

- ***Time***

Two days.

- ***Cost***

The cost will be US \$650.00 per Person (minimum 2) per Day for On-Site Training. Travel, lodging, and other expenses for the Trainer will be paid by the client.