

Scientific Management Techniques, Inc.

Logistics of Manufacturing Skills Program Deployment in Education

- 1) Advance shipment of program components; training aids, assessment machine and instructor guides. Depending on size of deployment the physical equipment arrives on four – eight full size pallets. For equipment storage a 10' X 15' storage space with appropriate shelving configuration works well.

- 2) Assessment Protocol (AP) Training. SMT senior staff will train and certify school staff in SMT's assessment methodology and proper use of the assessment machines. This training program typically takes one full week. Length of training is a function of the number of participants, quantity of assessment machines deployed and the number of assessments trained for each machine (there are multiple assessments with each assessment machine). Participants in AP training are not required to have a background in mechatronics, it helps, but it is not a requirement. Participants need to possess the following attributes: 1) must be a quick learner, there is a lot of information to assimilate, 2) possess high energy, we stand for a majority of the day during AP training, and 3) have good eyesight or effective corrective lenses. It is challenging to administer an assessment with poor eyesight.

- 3) Train-The-Trainer (TTT) program. SMT senior staff train and certify school staff to deliver the skills training curriculum. The TTT program takes 5 – 6 days depending on how efficiently participants assimilate the information. Participants are required to possess a deep mechatronics background and skill set; a strong understanding of the skills required to operate, maintain and troubleshoot a manufacturing facility. An effective profile for TTT participation is an individual with many years of experience in the position of maintenance leadership in industry and some experience in an education environment. Both are not a requirement but representative of an ideal TTT participant. Someone with experience teaching mechatronics in a formal education setting is also a strong candidate for the TTT program.

Most schools train different staff in the two capabilities (one group for AP training and a separate group for TTT training); not a requirement but it is suggested. We recommend a minimum of four participants for the AP training and three for the TTT program.

Post training we continue to work closely with each education partner. SMT is vested in the success of each school we collaborate with. We provide additional remote training if required and help each school market their new capabilities to local manufacturers. With a curriculum license, each school receives curriculum updates at no additional cost.