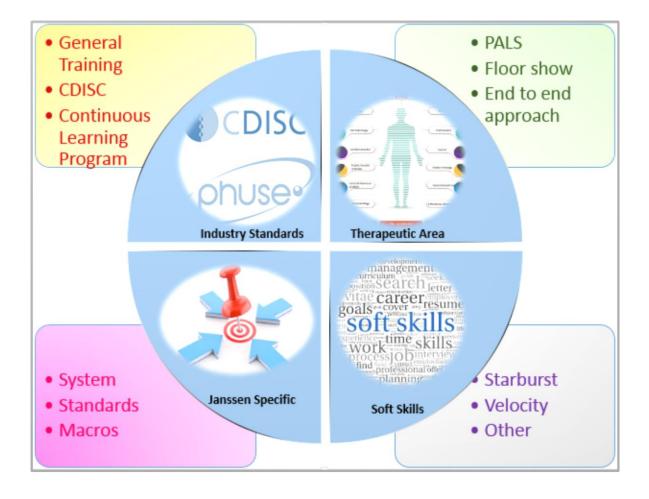
Provide a brief proposal for how your organization would support this working model (MBSM). Include the following:

• Set up for training of staff on: trends in the industry/ regulatory knowledge

How do you ensure biostatistics and statistical programming staff working in the MBSM are kept current on industry, technology and clinical advances?

Describe the type of training that you provide to your staff to ensure they maintain industry (including therapeutic area/disease area) proficiency.

At TCS, learning and sharing is based on organization needs, project requirements/unit needs & employee's career aspirations. TCS has a robust training system aligned to the Pharmaceutical industry requirements. The training programs have been designed taking into consideration **Industry Standards**, **Therapeutic Area**, **Customer Focus** and **Soft Skills** training.



# **General Trainings** –

An associate joining TCS undergoes the below listed training programs.

TCS Induction: All new recruits are inducted to the TCS culture and work values through a 3 day orientation program.

Based on the work experience of an associate, the Training and Development framework looks at the following:

1. In-house Talent Development program: Fresh Graduates

Associates joining as a fresher go through 4 weeks of Initial Learning Program (ILP) before proceeding to client trainings.

#### **In-house Talent Development: Fresh Graduates** Drug Development & Clinical Trial Process Recruiting Masters in Statistics or Mathematics or Computer Sciences Overview of ICH-GCP & Regulatory Guidelines or any equivalent degree from the best universities in India 21CFR-Part 11 & Information Security 3 Months of rigorous class room training from 9:00AM - 6:00PM Overview of Biostatistics & Statistical Programm Ability to mold the talent to the standards expected by TCS Understanding Protocol and CRF Fresh views and perspectives helping the organization to enrich Commonly used Statistical Methods in Clinical Tr Understanding Statistical Analysis Plan Creation of solid pipeline with best in class talent and up to date Statistical Programming in Clinical Trial - Basic training program Statistical Programming in Clinical Trial - Advanced After the training program, associates are mentored by senior level Application of CDISC Standards statisticians/ programmers, and complete some pilot projects Good Programming Practices After successful completion of pilot projects, the associates are deployed for actual work under the guidance of senior level Introduction to TCS Tools and Platf statisticians/ programmers Associates undergo the client specific training once assigned to Hands on Exercise - Biostatistics **Evaluation and Sign-off** projects

# 2. Training for Lateral Hires

All lateral hires are required to go through the client trainings and TCS SOPs.



For the in-house associates, there are various classroom trainings and Webinars conducted periodically to upgrade with industry norms, domain specific trainings and soft skill trainings.



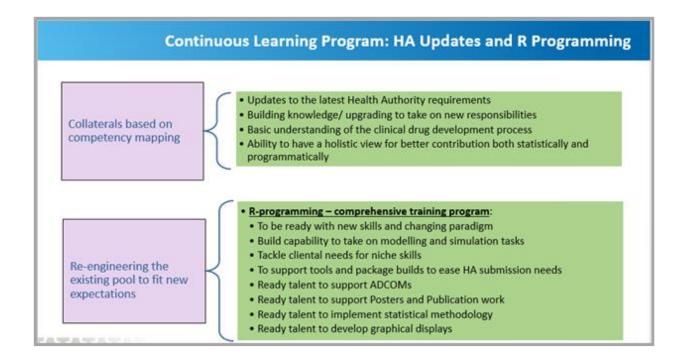
4. Employees will also be exposed to <u>external accreditations, certifications, publishing</u> <u>white papers, extracts</u> and participation in live forums and <u>blogs</u>.

<u>Continuous Learning Program</u> ensures team to keep updated with Health Authority regulations. This is coupled with the Competency Development Methodology which helps identify the associate of the gaps and have a robust self-development plan in discussion with the manager.

<u>CDISC</u> focus group – <u>CDISCussion</u> consists of SMEs and SAS programmers with extensive experience on CDISC standards working across different accounts. These trainings are conducted periodically. Few of the trainings conducted by the group are as follows: Therapeutic Area specific data standards, SEND, Define 2.0 xml hands of workshops.

**Trainings on R software:** Regular trainings and workshop on R software.





## **Thereaputic Area Trainings –**

<u>TCS PALS</u> (Pharma Academy of Learning & Sharing) team is a dedicated team of domain experts that cater to all domain training requirements. This team has dedicated members for domain competency growth, comprising qualified and experienced physicians, life science graduates and instructional designers. Training are imparted via various modes (Instructor Led Trainings, eLearning modules, self-read, demos, WebEx and video conferencing), and at different levels of competency (overview, basic, advanced, workshop) as appropriate, to train project team.

## J&J Specific Trainings -

TCS has been instrumental in delivering ADaM datasets and efficacy as well as safety reports for one of the breakthrough compound "Esketamine". With the experience of 10 studies over 2 years, TCS has come up with J&J specific training and documentation that help new associates to get familiar with J&J system, standards and reporting efforts.

<u>System</u> – TCS has been involved in 10 studies in Neuroscience portfolio, so far. Team has also supported migration studies. i.e., from STAR system to LSAF. TCS has created in-house document listing the procedure of migration and technical challenges faced during the execution. The document serves as reference for a new project on SAS Drug Development (SDD).

<u>Standards</u> – TCS has created programming standards documents that serves as easy access to current/new programmer to be aware of standards practices that need to be followed in Esketamine studies. TCS is trained on <u>new DPS standards</u> and started delivering reports for the first project <u>SUI3001</u>. J&J specific <u>METADATA</u> training is one of the key training sessions where ADaM standards, specification related to important data sets, macro associated to metadata has been discussed. This helps associate to be delivery ready and confident while working on live studies.

<u>Macros</u> – Exclusive training on J&J specific macros and coding standards have been conducted for each associates joining the group.

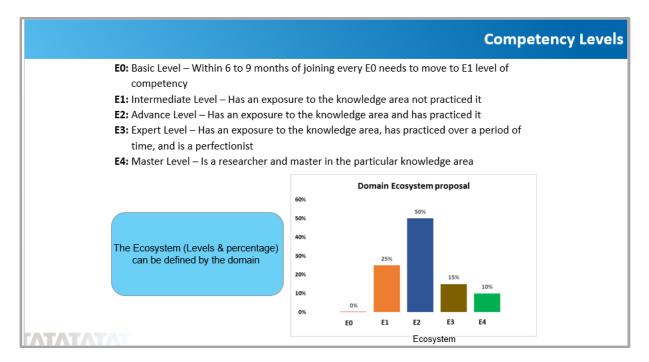
## J&J Specific Thereaputic Area Trainings -

<u>Floor Show</u> – Therapeutic Area experts from across Clinical Data Management (CDM), Medical Writer (MW) and Biostatistics and Statistical Programming (B&SP) teams conduct floor shows to present the disease area, drug mechanism, specific protocols related points to entire account per quarter. A collaborative learning where different data collection strategy, importance of critical data point from analysis perspective and challenges faced while executing a study are discussed.

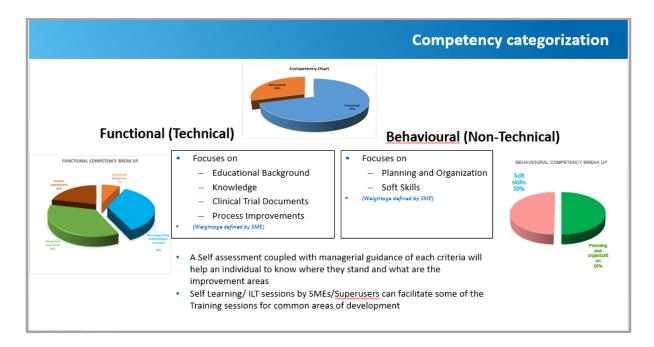
<u>End to End approach</u> – Study leads from CDM, B&SP, and MW teams meet on a frequent basis to discuss trial protocols. The cross functional team brings different aspects of the protocol and the critical points and perspective for data collection, analysis and reporting. This approach minimizes/avoids the last minute data issues and possible impact (delay) in timelines for respective teams.

## Soft Skills -

Based on the experience of an associate, various trainings ranging different competency level are assigned via <u>TCS-iEvolve</u> management.



Further, competencies have been categorized into 2 parts 1) Functional, and 2) Behavioral



Depending on competency level, TCS and experience of associates designed specific training programs like <u>Velocity</u> that focuses of grooming team members, create and maintain healthy team environment, <u>Starburst</u> emphasis on proactive learning and value creator for associates.