```
                        ┌─────────────┐
                        │   R Base    │
                        └──────┬──────┘
                 ┌─────────────┴──────────────┐
                 ▼                            ▼
          ┌─────────────┐              ┌──────────────────┐     - General Syntax
          │ R Advanced  │              │ Clinical Analyst │     - EDA
          └──────┬──────┘              └────────┬─────────┘     - Stats/Modeling
        ┌────────┼────────┐                     │               - SAS Base Knowledge
        ▼        ▼        ▼                     ▼               - Reporting
   ┌─────────┐┌──────────┐┌──────────────┐┌──────────────┐
   │    R    ││   Data   ││ Visualization││ Statistical  │
   │Developer││Scientist ││  Specialist  ││ Programmer   │
   └─────────┘└──────────┘└──────────────┘└──────────────┘
```

Exam Levels

R Base- Basic knowledge of R programming - data types, functions, libraries, graphs, etc

R Advanced- Advanced knowledge of R programming - OOP (S3, S4, R6/R7), vectors, expressions, etc

R Developer- emphasis on devtools, package development, API retrieval, code modularization practices, testthat

Visualization Specialist- ggplot2, plotly, Shiny dashboarding, JavaScript, CSS/HTML

Data Scientist- vetiver, keras, working with python and R, EDA, modeling, tidy modeling, SparklyR

Clinical Analyst- bilingual programmer for clinical trials- SAS base knowledge, working with SAS and R, basic data analysis and modeling overview, general syntax, data visualization, CDISC/GCP base knowledge, clinical reporting in R

Statistical Programmer- SAP, Survival Analysis, Covariate Adjustments, Mixed Effect Modeling, Adverse effects, etc.