

Crimping of High Reliability Electrical Connections to ESA Specification ECSS-Q-ST-70-26

Fact Sheet E06

ASTA Technology UK Ltd

This ESA-approved course will review the latest revision of the ECSS-Q-ST-70-26 standard and is followed by an open book multiple choice test. The review of the standard will give an understanding of the contents of the specification and why they are important. The test is designed to develop your ability to navigate the standard and find the relevant information in an efficient manner.

The requirements in the standard are designed to ensure process consistency and acceptable workmanship standards resulting in the production of Crimping of High-Reliability Electrical Connections ESA/ECSS specification ECSS-Q-ST-70-26

The course also has a practical test for both operators and inspectors, the practical consists of crimping wires and destructive testing in accordance with the standard. Results are also inspected by the instructor to ensure an understanding and an acceptable level of practical skills can be demonstrated in accordance with the standard.

All necessary tools and equipment are supplied, although delegates are welcome to bring their own hand tools if desired.

Course aims

- To review and understand the requirements of the specification;
- To identify the factors which influence the quality, reliability and performance of crimped connections;
- To develop correct assembly and testing methods;
- To develop ability to identify and analyse associated faults.

Course content

Theory of solderless connection methods *
Knowledge of critical parameters affecting quality and function of connections *
Advantages and disadvantages of crimping compared with soldering * Tool selection * Tool adjustment and quality control * Processing crimp surveys * Recognising range of crimp formats * Correct wire preparation * Correct terminal preparation * Tensile testing sample connections * The importance of cleanliness *
Recognition of faults

Review date: 13/01/2021

Award

In accordance with ESA STR-258, an ESA approved, Category 2 and 3 Certificate, valid for 2 years, will be awarded on successful completion of the course.

Experience and pre-requisites

- Minimum one year of relevant industrial experience, verified by the employer / manager
- Familiarity with electronic wiring and assembly processes
- Good practical skills
- A positive attitude to high quality workmanship

Duration, schedule and fees 2 days – Please see the current Course Calendar for dates and fees.

Recertification

To renew certification for a further 2 years, a 1-day recertification course E96 is available.

Enquiries are welcome – please use the website [contact form](#) for security.