

# Crimping and Wire Wrapping to ESA Specifications ECSS-Q-ST-70-26 and ECSS-Q-ST-70-30

Fact Sheet E08

ASTA Technology UK Ltd

This ESA-approved course will review the latest revision of the ECSS-Q-ST-70-26 and ECSS-Q-ST-70-30 standards 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 "*The Crimping of High-Reliability Electrical Connections*", ECSS-Q-ST-70-26, and "*The Wire Wrapping of High-Reliability Electrical Connections*", ECSS-Q-ST-70-30

The course also has a practical test for both operators and inspectors, the practical consists of crimping wires and attaching wires to terminals 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 specifications.
- To identify the factors which influence the quality, reliability and performance of crimped connections, wire-wrapped 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 and wire wrapping compared with soldering \* Tool selection \* Tool adjustment and quality control \* Processing crimp and wire wrap surveys \* Recognising range of crimp formats \* Correct wire preparation \* Correct terminal preparation \* Tensile testing sample connections \* The importance of cleanliness \* Recognition of faults.

## 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** 3 days – Please see the current Course Calendar for dates and fees.

## Recertification

To renew certification for a further 2 years, a 2 - day recertification course E98 is available.

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